



SENTURUS

Overview of the Azure Data Platform

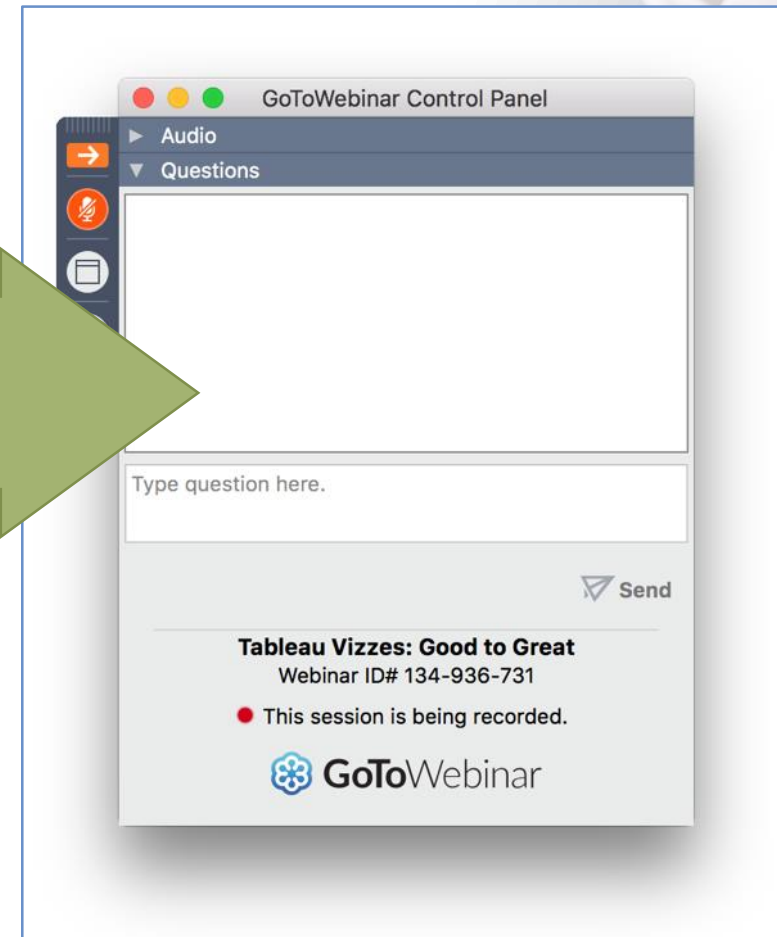


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Topics


- Analytics Connector
- Cross Vendor Comparisons
- Dashboards Reporting & Visualizations
- Data & Cloud Architecture
- Data Prep & Modeling
- Deployments & Performance Optimization
- IBM Analytics & Cognos
- Microsoft Azure & Power BI
- Security, governance & administration
- Snowflake
- Tableau




Webinar
6 Ways to Publish & Share Tableau Dashboards
How-to demo and discussion of pros, cons and considerations




Webinar
How to Successfully Implement Self-Service Analytics
Agile, governed self-service BI with a focus on Cognos analytics




Webinar
Creating a Power BI Report Your Boss Can Navigate
How to design a user-friendly nav experience



Webinar
Power BI Report Builder & Paginated Reports
Creating pixel-perfect reports for printing and PDF



Webinar
Using Python with Power BI
Learn the basics, including the software and plotting libraries



Webinar
Streamline Cognos Migrations and Consolidations
Automatically decode Cognos content and reduce migration time by 90%

Agenda

Introductions

Azure

Data workloads

Services

Architectures

Implementation

Technologies

Senturus overview and additional resources

Q&A



Introductions



Vitaly Livshits

Azure Consultant &
Microsoft Certified Trainer



Todd Schuman

Practice Lead Installations, Upgrades and Optimization
Senturus, Inc.

Poll #1



<input checked="" type="checkbox"/>	—
<input type="checkbox"/>	—
<input type="checkbox"/>	—

What Azure data-related services do you currently use? (Select all that apply)

- Azure SQL database
- Azure Synapse Analytics
- Azure Databricks
- Azure Data Lake Storage
- Other

Poll #2

What on-premises database platform(s) are you interested in migrating to Azure? (Select all that apply)



<input checked="" type="checkbox"/>	—
<input type="checkbox"/>	—
<input type="checkbox"/>	—

- SQL Server
- Oracle, DB2 or other major non-Microsoft vendors
- Open source, such as MySQL and PostgreSQL
- Other
- We already run all our data databases in Azure

Overview

- Data workloads on Azure: transactional vs. analytical
- Popular Azure services for relational and non-relational data scenarios
- Benefits of Azure for data-centric architectures
- Azure greenfield projects and data migrations
- Storage approaches: data lake, data warehouse, data lakehouse
- Key technologies: Azure Storage, Azure SQL Database, Azure Synapse, Azure Data Factory, Azure Databricks, Power BI

A (very) brief introduction to Azure

- Microsoft's public cloud
- Released on February 1, 2010
- 60+ regions worldwide
- 200+ services in all categories
 - In this webinar we focus on a few in the **data** category
- *“Put your ideas into action”*



Workloads

Transactional

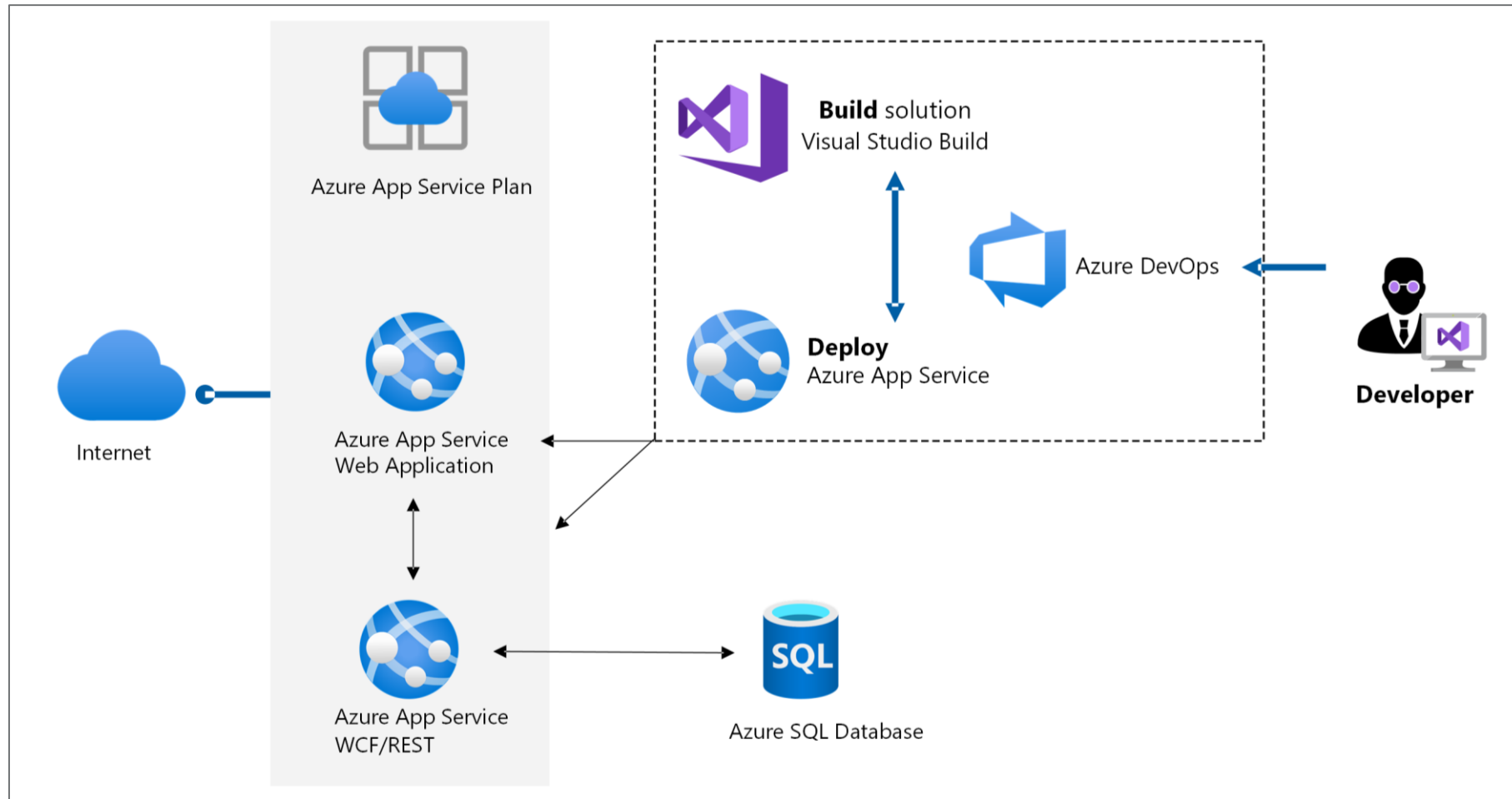
- Traditionally known as OLTP: Online Transactional Processing
- Database is optimized for reads and writes (i.e., transactions)
- Example: database for e-commerce website

VS.

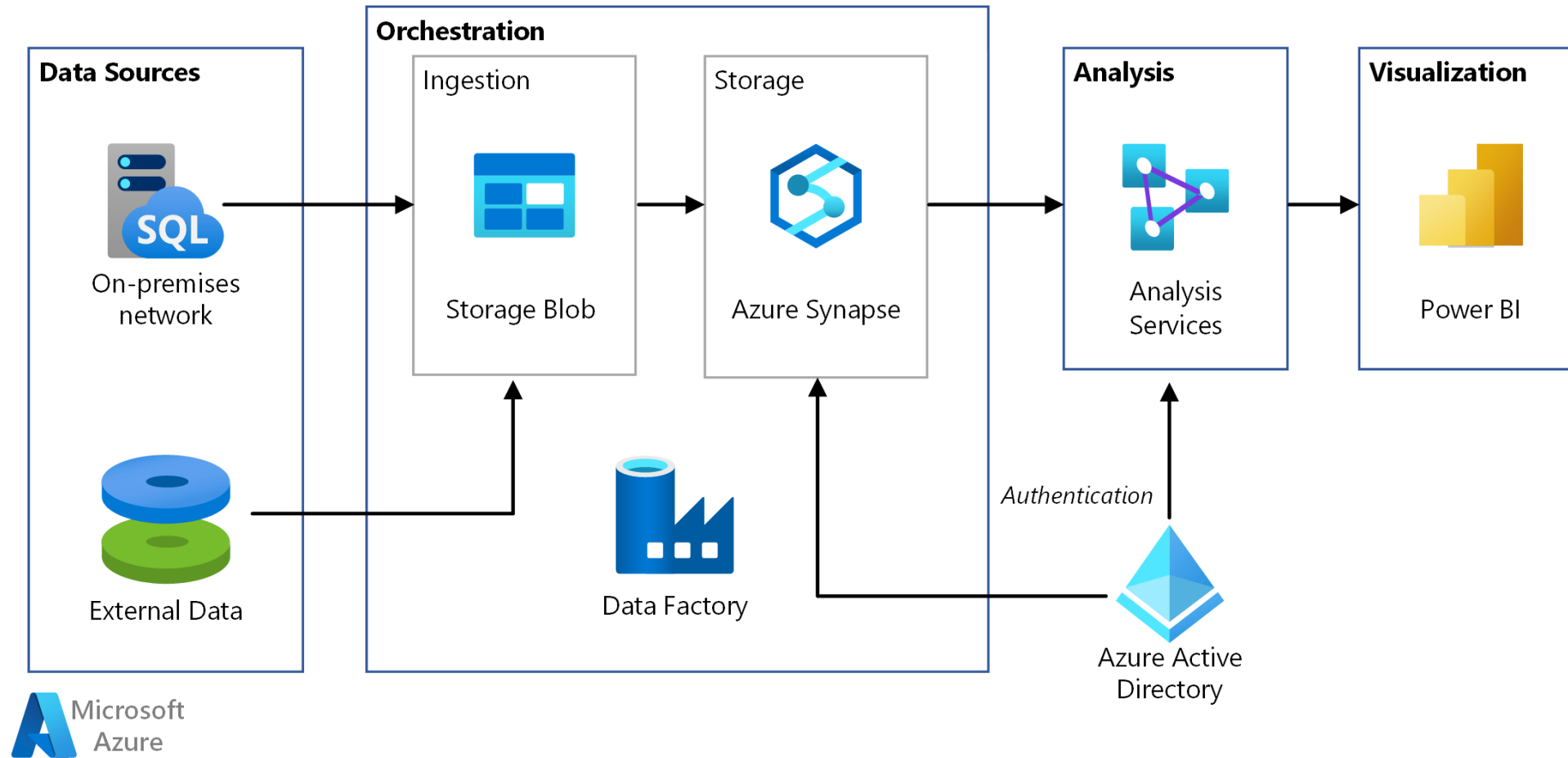
Analytical

- Traditionally known as OLAP: Online Analytical Processing
- Database is optimized for BI/reporting/analytics
- Example: enterprise data warehouse (EDW)

Architecture: transactional workload



Architecture: analytical workload



Greenfield vs. migration

Greenfield

- Brand new database in Azure
- Can use latest and greatest cloud-native services without restrictions
- No data or codebase migration required

Migration

- Moving an existing database to Azure
- More challenging because of legacy considerations
- Need to transition data and/or codebase to Azure
- Can use Lift & Shift, re-architect or other/mixed approaches

Greenfield: Azure SQL database

- Platform as a Service (PaaS)
- Fully managed service:
 - Automated backups
 - High availability (HA) with up to 99.995% SLA
 - Upgrades and patches
- High security with multi-layer defense
- Nearly instant scalability and elasticity
- Artificial intelligence (AI) optimizations



**Azure SQL
Database**

Migration

SQL Server on Azure
Virtual Machines



- Infrastructure as a Service (IaaS)
- Lift & Shift migration, aka “rehosting”
- OS-level access
- Usually the least-effort option

Azure SQL
Managed Instance



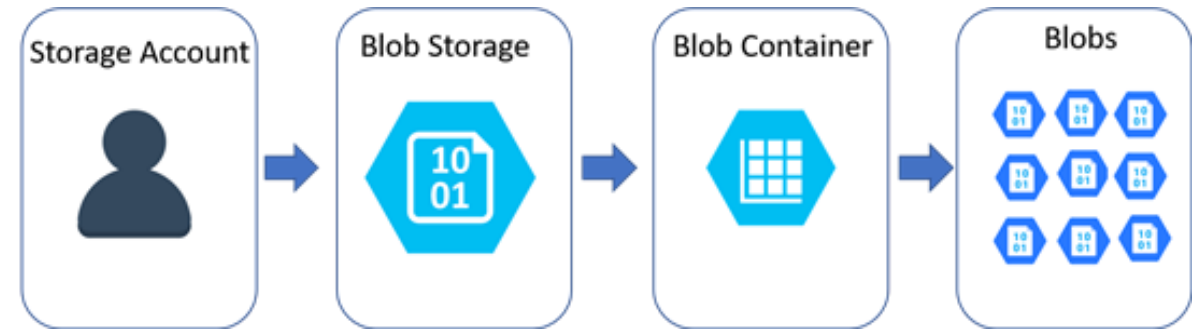
- Platform as a Service (PaaS)
- Almost 100% compatibility with SQL Server
- Ideal for modernizing existing applications

Demo: Azure SQL database

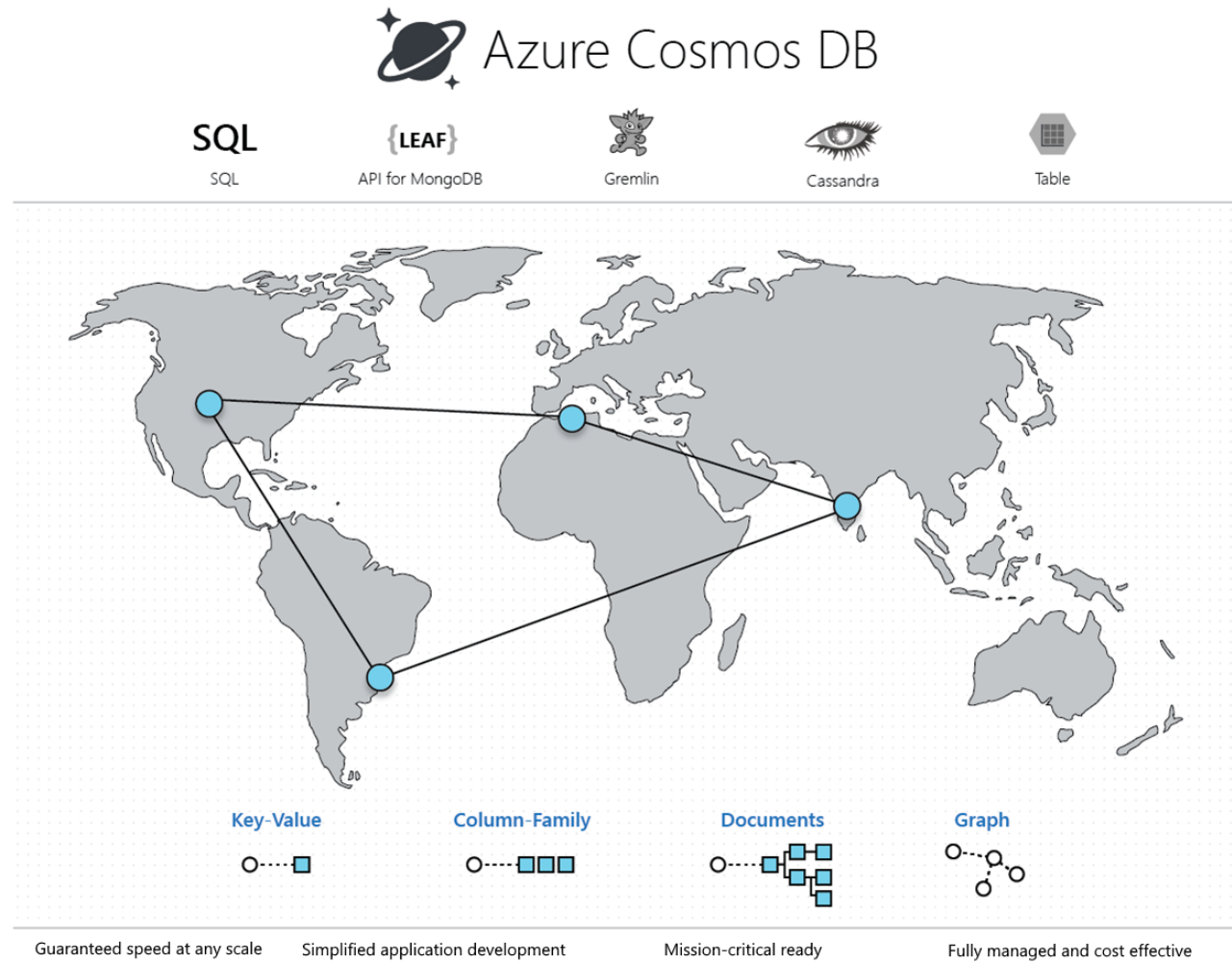


Azure storage and data lakes

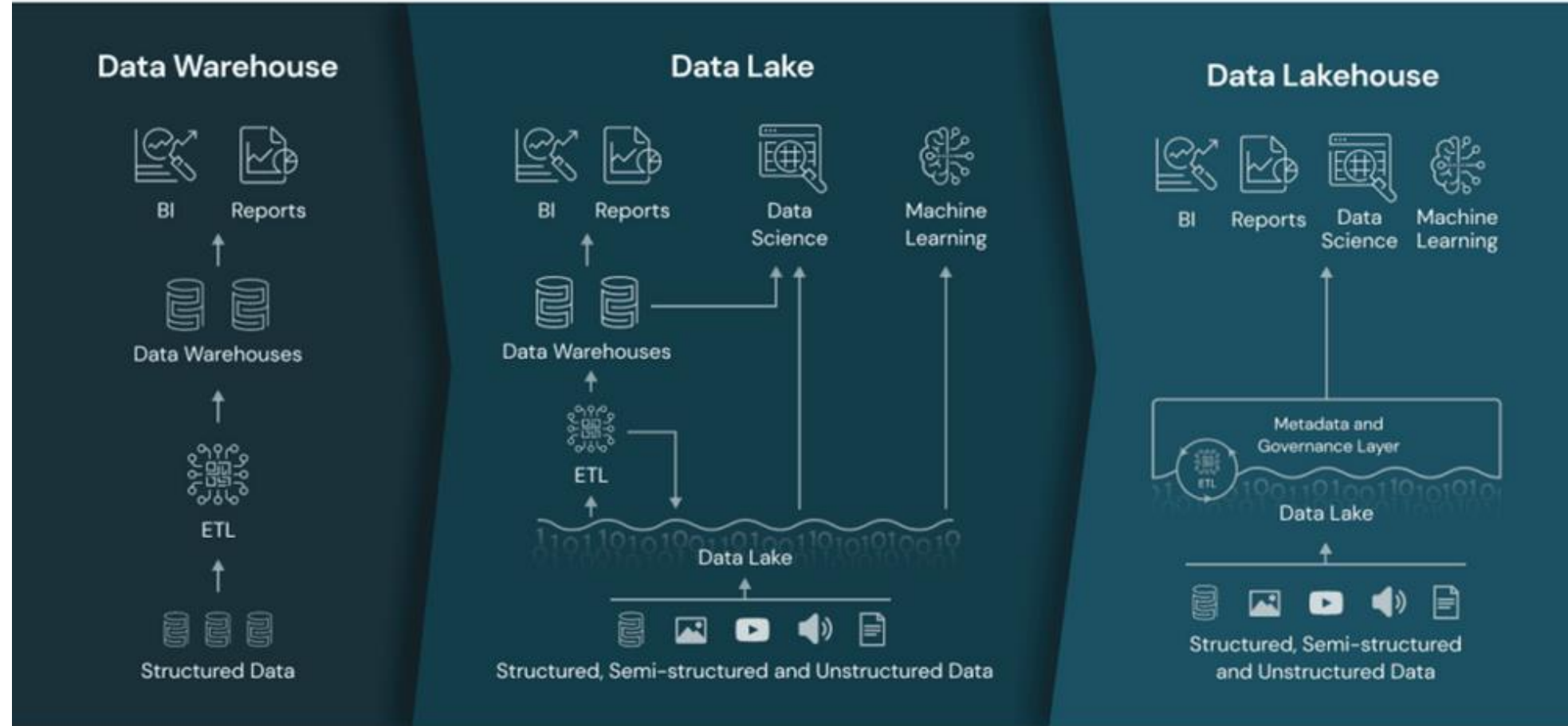
- Benefits of Azure Data Lake Storage Gen2 (ADLS Gen2)
- High performance
- Very high storage limits in PBs / account
- Global distribution & replication
- Secure & cost effective
- Hadoop-compatible API



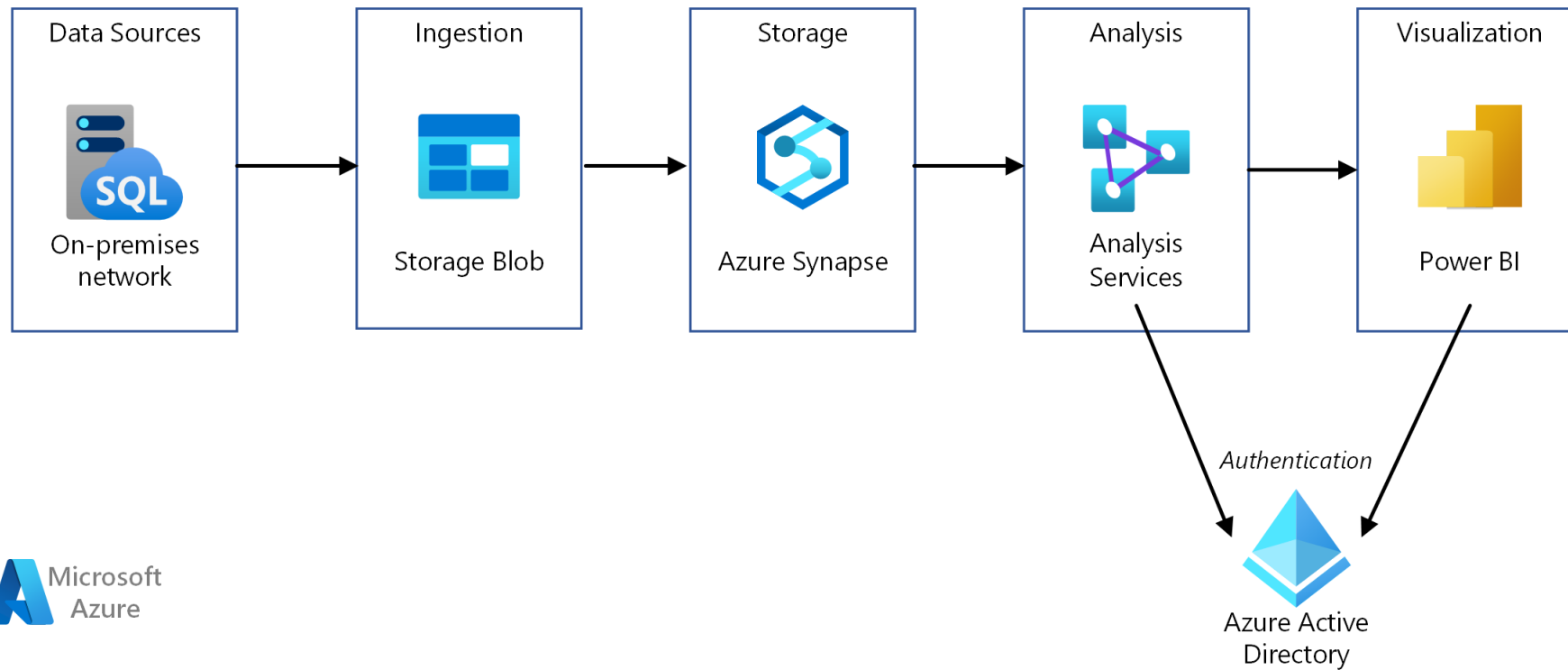
NoSQL option: Azure CosmosDB



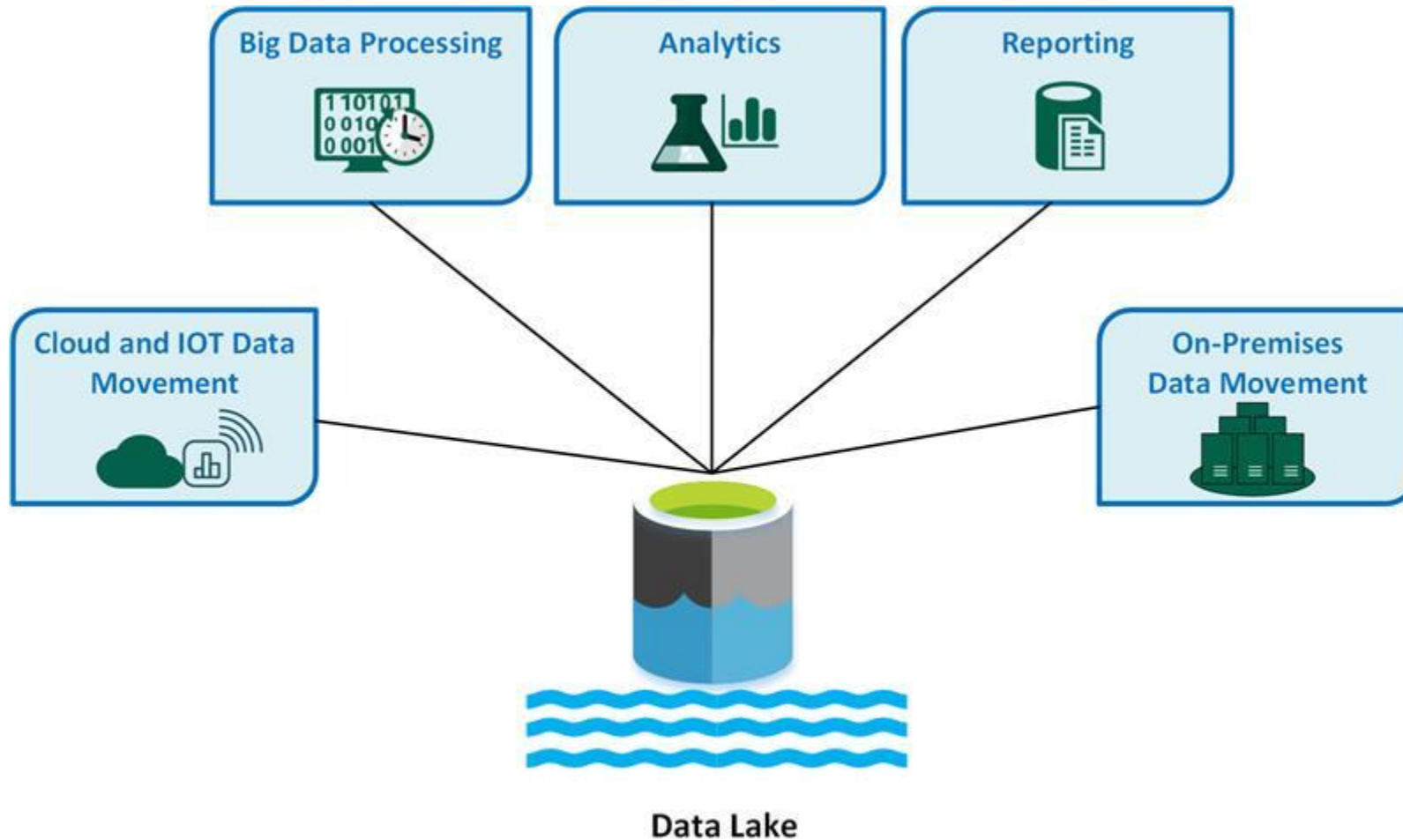
Modern analytics - architecture options



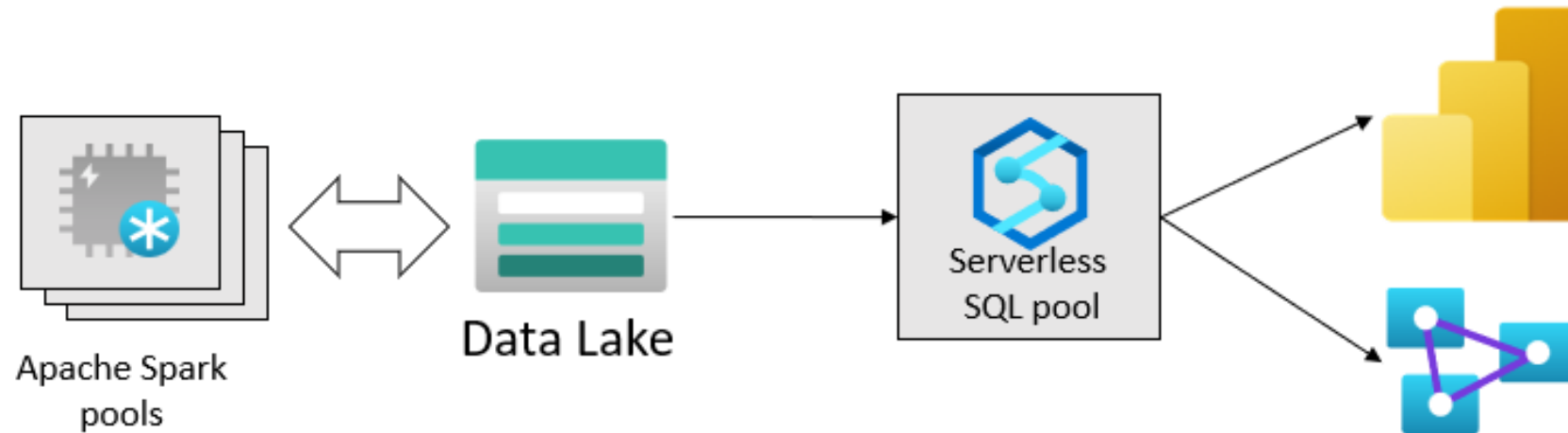
Modern analytics – data warehouse



Modern analytics – data lake



Modern analytics – data lakehouse



Azure training

Azure Administrator

Intermediate-Advanced

🕒 4 days

Azure AI Fundamentals

Beginning

🕒 1 day

Azure Data Fundamentals

Intermediate

🕒 1 day

Azure Fundamentals

Beginning

🕒 2 days

Azure SQL Data Warehouse Architecture & SQL

Beginning-intermediate

🕒 3 days

Designing & Implementing Microsoft DevOps Solutions

Intermediate-Advanced

🕒 5 days

[See details on our website](#)

Additional resources

Unbiased product reviews



Technical tips



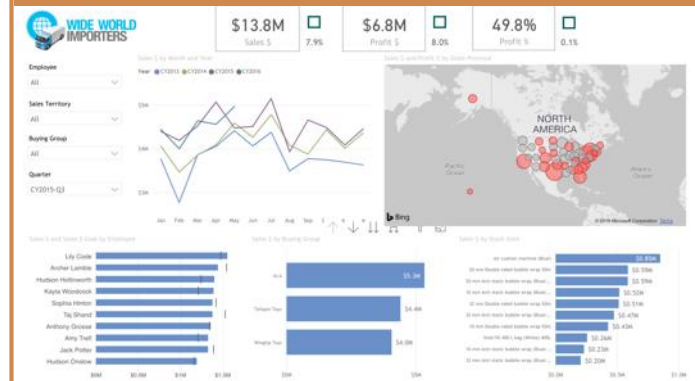
Insider viewpoints



More on this subject



Product demos



Upcoming events



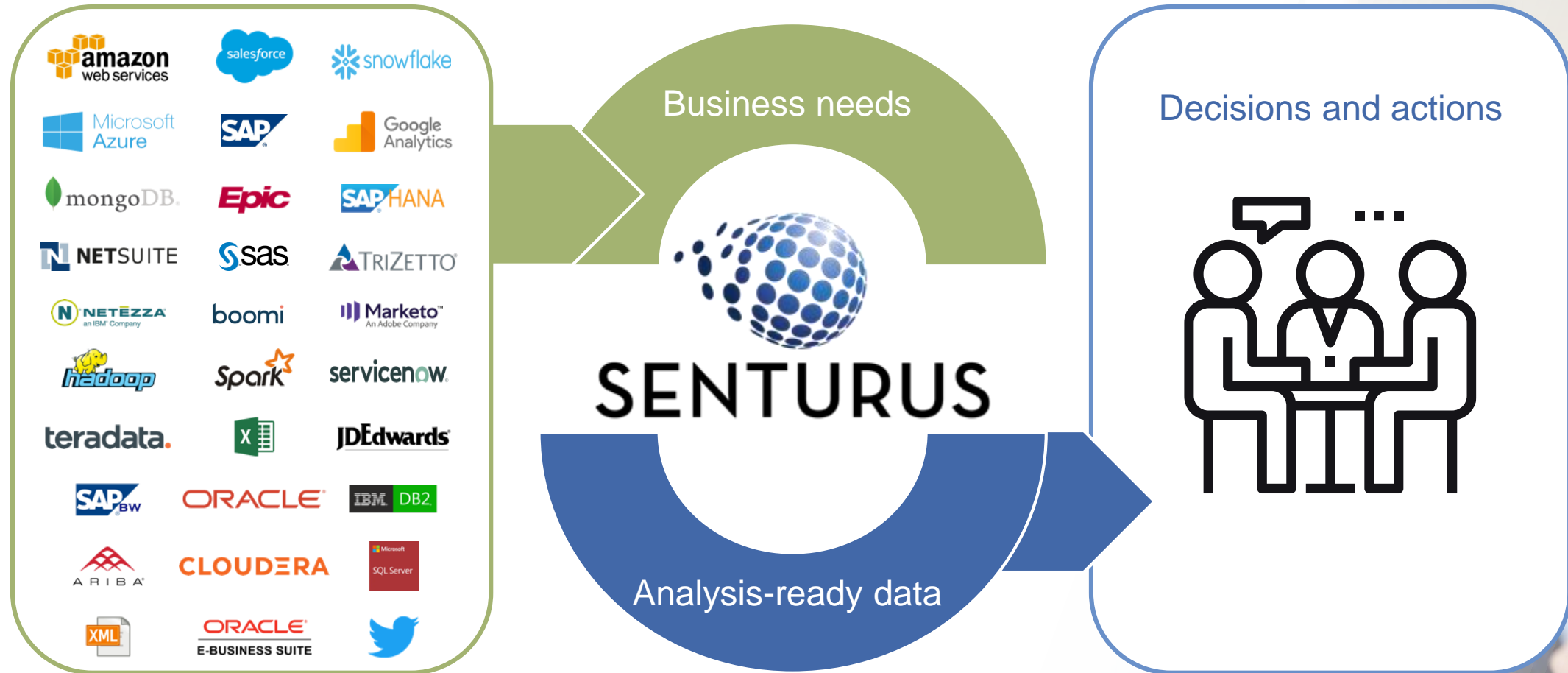
Upcoming event

Introduction to Data Visualization Using Python

Thursday, Sep 1, 2022, 11am PT/2pm ET

<https://senturus.com/events/introduction-to-data-visualization-using-python/>

Modern BI: accelerated & accessible



A long, strong history of success

21+ years

1350+ clients

3000+ projects





Join the Senturus team

We're hiring talented and experienced professionals

- Analytics/Business Intelligence Trainer
- Senior Microsoft BI Consultant
- Managing Consultant

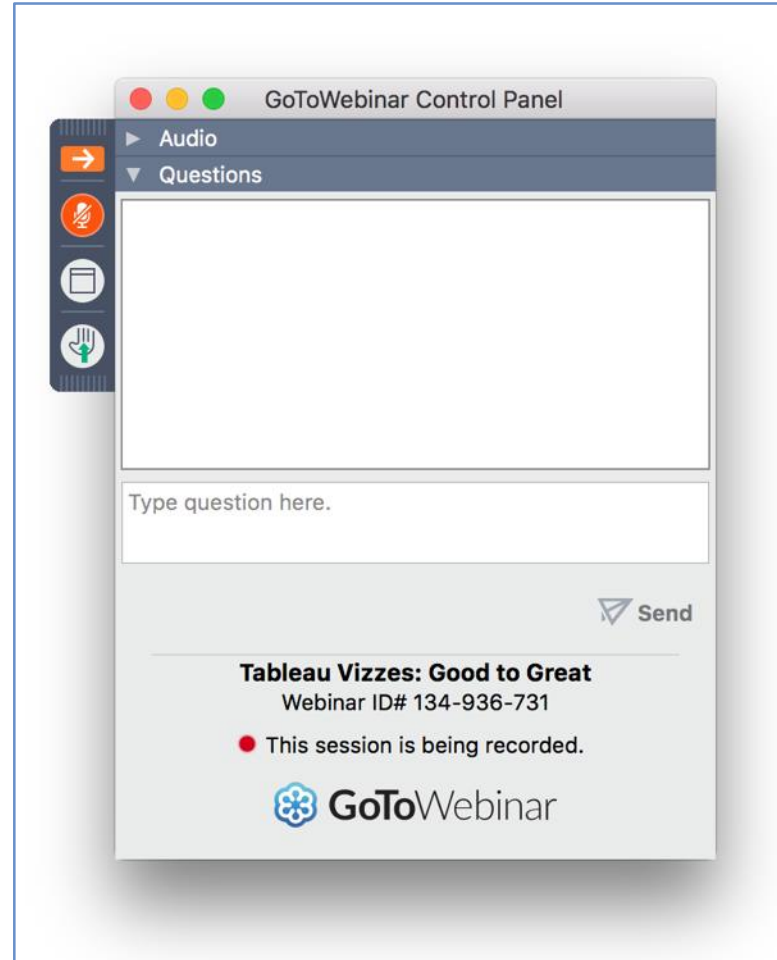
See job descriptions: <https://Senturus.com/why-Senturus/careers/>
Send your resume to: jobs@Senturus.com

Q & A

If your question or issue is broader than what we are able to answer today, contact us at:

info@senturus.com

and we will set up a free consultation.



Thank You



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