

The Denodo Platform for Azure

SOLUTION

Denodo Platform for Azure

INDUSTRY

Applies to all industries

PRODUCT OVERVIEW

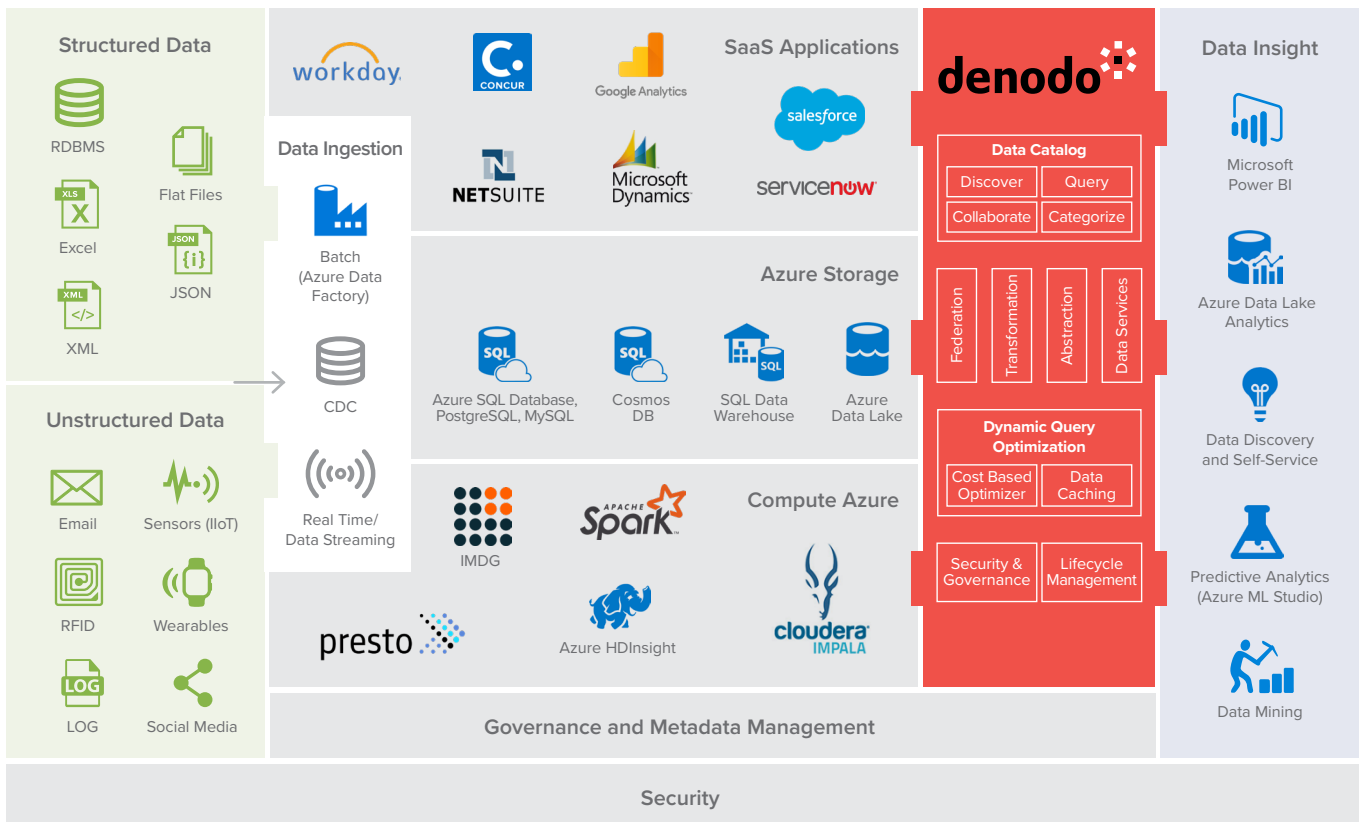
Denodo Platform for Azure offers a breadth of capabilities in a cloud computing environment, that helps lower the total cost of ownership for not only the hardware, but also software and the entire IT infrastructure. You will learn about some of the key use cases in a hybrid cloud environment such as business analytics, migration to cloud and cloud data warehouse modernization. This solution brief provides an insight into the deployment options and a high level architecture of the Denodo Platform for Azure and how to get started.

The Denodo Platform provides all the benefits of data virtualization, including the ability to provide real-time access to integrated data across an organization's diverse data sources and mission critical SaaS applications, all without replicating or moving any data. It is a fast, easy, and cost-effective way to define and create a data virtualization layer as part of a big data / hybrid cloud architecture. A data virtualization layer acts like a universal enterprise repository serving operational and analytical needs, yet it contains no data. Instead, it contains critical metadata that enables it to connect to diverse data sources in real time.

Extending the power of the the Denodo Platform for Azure helps users to focus on building features that add business value, without the overhead of designing and writing additional code to deal with issues of reliability, scalability, management, or latency. With its Dynamic Query Optimizer, the Denodo Platform delivers breakthrough performance for big data implementations and logical data warehouses, and with self-service data discovery and search capabilities, it expedites the use of data by business users. The Denodo Platform can run on-premises or in the cloud, for maximum flexibility, enabling users to gain the agility of an infrastructure-as-a-service (IaaS) platform.

Considerations when Architecting the Denodo Platform for Azure

For many cloud initiatives, the center of gravity for the data is a moving target. It might start off being on-premises but is likely to shift to Azure as more and more data sets migrate to the cloud. In such a situation, the Denodo Platform might initially be deployed on-premises before moving to a multi-location deployment with the Denodo Platform deployed both on-premises and on Azure, as the data becomes spread over the different locations.



The Denodo Platform for Azure can be architected in three ways:

1. Deployed on-premise with Azure data sources
2. Deployed in a hybrid multi-location architecture
3. Deployed on Azure only

In theory, when the bulk of the data resides on Azure, the Denodo Platform could reside solely on Azure. However, the reality is that some data sets and applications will never migrate to the cloud, so a multi-location Denodo deployment is highly recommended, as it provides data location transparency and other benefits.

Key Features and Benefits of Denodo Platform for Azure:

- Lower total cost of ownership for hardware, software, and IT infrastructure
- Pay based on actual use; no need to pay for unused capacity
- Faster provisioning of IT environments; new IT capabilities and capacities delivered in minutes
- Azure Cloud offers scaling and portability, to more effectively manage workloads across cloud or hybrid infrastructures
- Enables a strong focus on meeting business challenges rather than expending resources on ad-hoc technical problems

Connecting to Key Data Sources in the Cloud

The Denodo Platform for Azure can connect to a wide range of data sources:

- **SQL Data Warehouse & SQL DB** (Azure database for MySQL, Redis Cache, Microsoft SQL Server, PostgreSQL) – Connect using the SQLDW JDBC driver or native database JDBC drivers.
- **Azure Databricks, HDInsight** – Run popular open source frameworks—including Apache Hadoop, Spark, and Kafka. Databricks supports in-memory Spark Clusters processing.
- **Blob Storage** – Access data stored in Blob storage files directly from the Denodo Platform. Access CSV, JSON, XML, delimited, and Parquet files stored in Azure Blob storage.
- **Snowflake, Presto** – Snowflake is a cloud-based data-warehouse-as-a-service (DWaaS) offering on Azure. You can connect to Snowflake using the Snowflake JDBC driver. The Denodo Platform provides native support for Presto to boost performance and scalability of data virtualization queries in big data and analytical scenarios.
- **A wide variety of SaaS data sources** – including Microsoft Dynamics 365, Salesforce, ServiceNow.

Use Cases for the Denodo Platform for Azure

There are many possible use cases for leveraging data virtualization with the Denodo Platform for Azure – especially when used in an advanced and extensive cloud infrastructure such as Azure.

The key use cases for the Denodo Platform for Azure are:

1. Analytics and Machine Learning in the Cloud
2. Cloud Data Gateway
3. Cloud Modernization & IOT
4. Multi-Cloud (or multi-region) Integration
5. Cloud Migration, Archiving, and Compliance Reporting

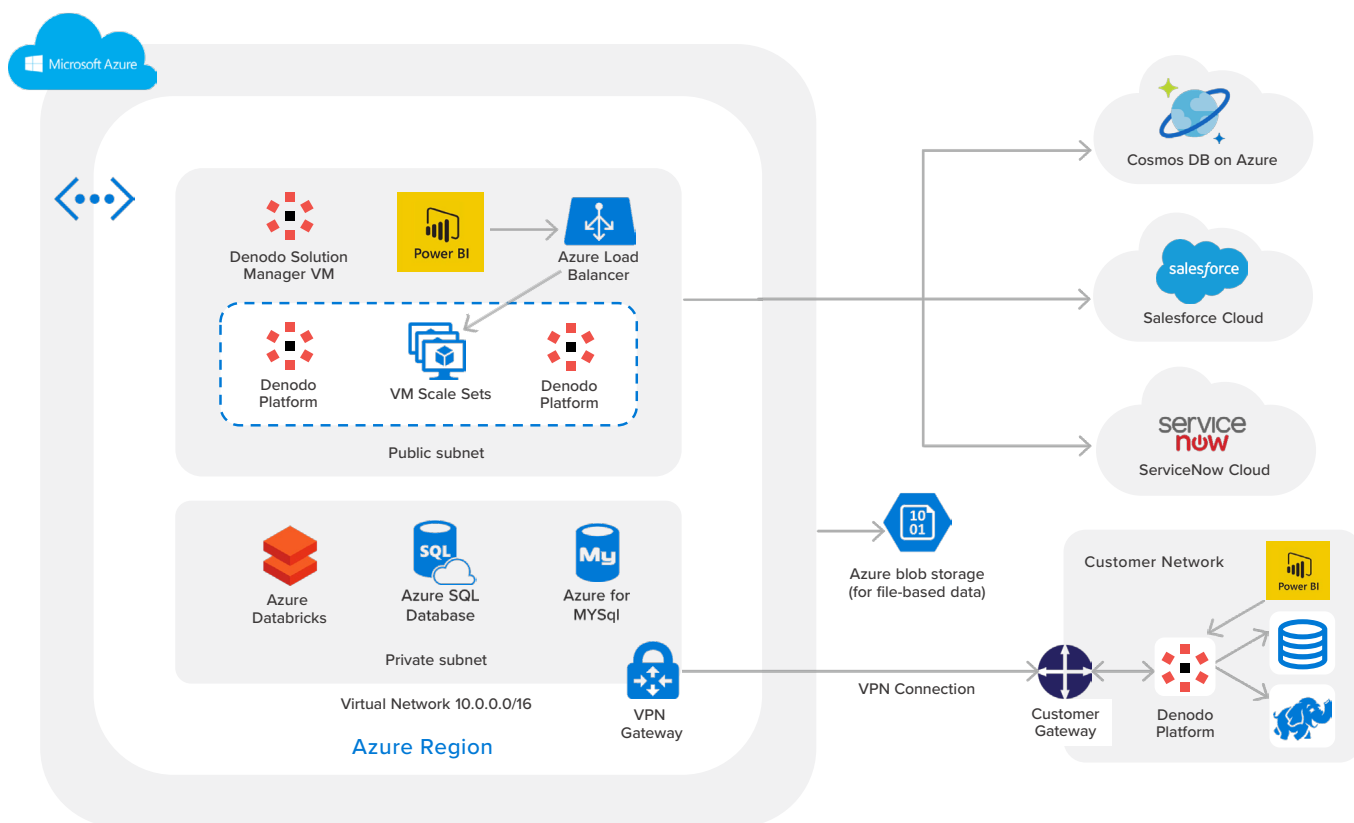
Getting Started with the Denodo Platform for Azure

There are two main methods for quickly getting started with the Denodo Platform for Azure:

1. Use it as an infrastructure, leveraging BYOL (Bring Your Own License) to cloud
 - Suited for complex deployments, providing extensive setup control
 - Not suitable for utility pricing, but offers flexibility in customizing Ts & Cs
 - List price is higher, and the installation is performed by the client
2. Subscription based model via Azure Marketplace
 - Has a lower list price and comes with broader sizing options (for lower-end configurations)
 - Enables users to start in minutes; offers pre-configured VM for Azure
 - Complex deployments can cost more (no customized discounts)

Consider taking a **free test drive**, which offers a head start in learning about the set up and usage of the Denodo Platform for Azure.

The diagram below further highlights the hybrid architecture which can be built using the Denodo Platform for Azure and how to get started quickly.

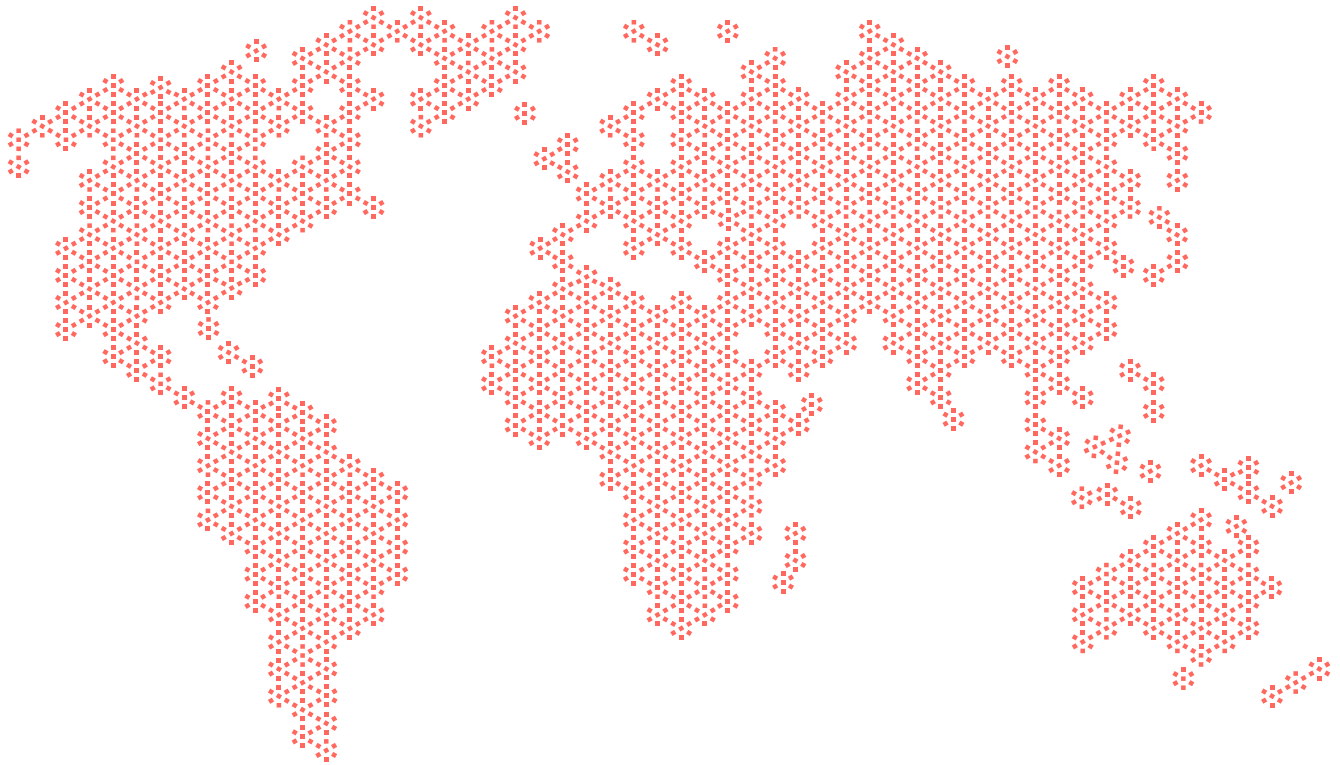


SUCCESSFUL CLOUD
MODERNIZATION WITH
THE DENODO PLATFORM
FOR AZURE



TransAlta

Others...



Denodo Technologies is the leader in data virtualization providing agile, high performance data integration, data abstraction, and real-time data services across the broadest range of enterprise, cloud, big data, and unstructured data sources at half the cost of traditional approaches. Denodo's customers across every major industry have gained significant business agility and ROI.

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