

The Denodo Platform for Alibaba Cloud



The Denodo Platform, powered by data virtualization, offers a fast, easy, and cost-effective way to create a logical data-access layer as part of a cloud, hybrid-cloud, or multi-cloud architecture. A logical data-access layer provides access to data across all systems without needing to copy or replicate it into a single repository and meets both operational and analytical needs, yet it contains no data. Instead, it contains the metadata to connect to distributed data sources in real time, without replication.

Extending the power of the Denodo Platform, the Denodo Platform for Alibaba Cloud accelerates the adoption of cloud computing and data processing on Alibaba Cloud, in hybrid environments, and in multi-cloud environments. The Denodo Platform for Alibaba Cloud offers a wide range of data integration and data management capabilities, including real-time data access across disparate systems, self-service data discovery, cloud-native deployment, streamlined data security and data governance support, AI-based query acceleration, and much more.

Considerations when Architecting the Denodo Platform for Alibaba Cloud

For many cloud initiatives, data has a shifting center of gravity. It might start off on-premises but is likely to shift to Alibaba as more and more data sets migrate to the cloud. In this 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 Alibaba Cloud, as the data becomes spread across the different locations.

The Denodo Platform for Alibaba Cloud can be architected in three ways. It can be deployed:

1. On-premises, using Alibaba data sources
2. In a hybrid, multi-location (multi-instance) architecture as described above
3. Only on Alibaba Cloud

In theory, when the bulk of the data resides on Alibaba Cloud, the Denodo Platform could reside solely on Alibaba Cloud. 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

SOLUTION

The Denodo Platform for Alibaba Cloud

INDUSTRY

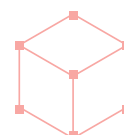
Applies to all industries

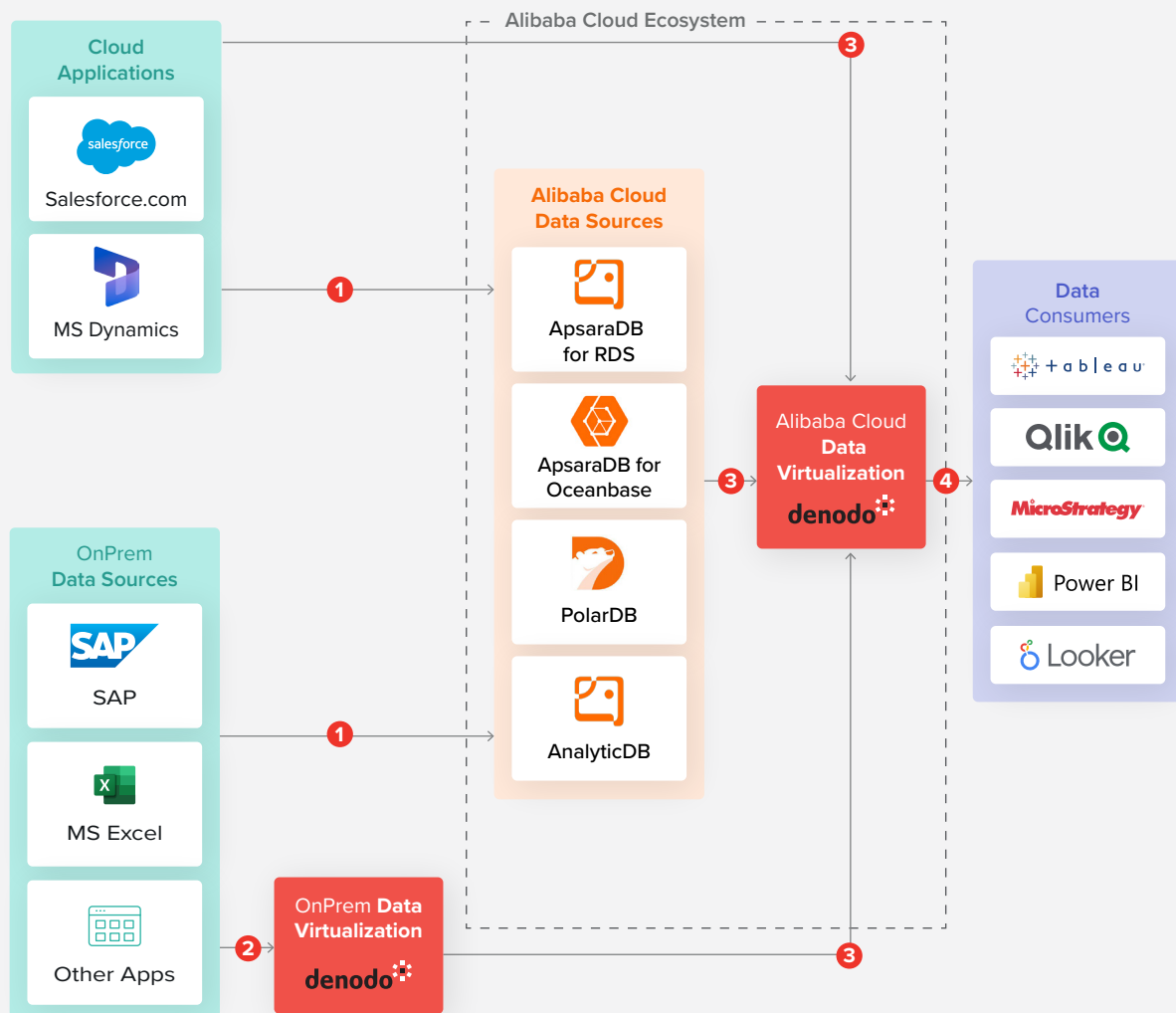
WEBSITE

www.denodo.com

PRODUCT OVERVIEW

The Denodo Platform for Alibaba Cloud offers a breadth of capabilities for lowering the total cost of ownership (TCO) and gaining the maximum value from your Alibaba Cloud deployment. It supports a wide variety of use cases, including enable self-service BI, advanced analytics, hybrid/multi-cloud integration, and enterprise data services solutions.. This solution brief covers several deployment options, presents a high-level architecture, and provides guidance on how to get started.

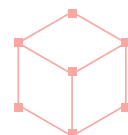




1. Data from cloud and on-premise sources is loaded into Alibaba Cloud data services for analytical and operational processing.
2. On premise data from applications, databases, files, and other sources is virtualized by Denodo on-premise engine providing unified and secure access point.
3. Structured, semi-structured, and unstructured data residing in Alibaba Cloud services is combined with data coming from the cloud applications and on-prem data sources delivering the real-time gateway for end-user consumption. Required virtual data marts are built inside the Denodo Platform on Alibaba Cloud.
4. Data is consumed by BI and analytics tools.

Key Features and Benefits of the Denodo Platform for Alibaba Cloud

- Lower total cost of ownership (TCO) for hardware, software, and IT infrastructure
- Native connectivity with Alibaba Cloud Services and other on-premises and cloud data sources
- Companies can integrate petabyte-scale data in real time by leveraging the Denodo Platform's Dynamic Query Optimizer
- The optimizer automatically pushes down as much processing as possible to Alibaba data services such as ApsaraDB, to improve overall performance
- Leverages the advanced security features of the Alibaba Group



Connecting to Key Data Sources in the Cloud

The Denodo Platform can connect to a wide range of data sources on Alibaba Cloud:

- ApsaraDB for RDS
- ApsaraDB for Oceanbase
- PolarDB
- AnalyticDB

Use Cases for the Denodo Platform for Alibaba Cloud

There are many possible use cases for leveraging logical data management with the Denodo Platform for Alibaba Cloud. A few key use cases are:



HYBRID/MULTI-CLOUD DATA INTEGRATION

Companies are moving their critical businesses to Alibaba Cloud to efficiently handle their workloads. Additionally, departmental projects within organizations are likely adopting SaaS applications at an ever-increasing pace, and organizations still need to maintain on-premises systems that are vital to business operations. In a hybrid/multi-cloud environment, the need for data integration has never been greater. The Denodo Platform for Alibaba Cloud offers a single logical point from which to seamlessly query and integrate data in real time, using any business intelligence (BI) or reporting tool, as well as via APIs, regardless of where the source data is stored or in what format it is stored.



DATA-DRIVEN ANALYTICS

Data analytics and business intelligence (BI) are front and center for every successful company. However, many users still need help finding and accessing the data they need, so they rely on IT staff. The Denodo Platform's data catalog bridges the gap between the technical data infrastructure and business users. It provides search and collaboration capabilities and data exploration wizards. It is the perfect companion for the virtual layer, empowering self-service initiatives with minimal IT intervention. It enables business users to generate their insights with proper security, governance, and guardrails.



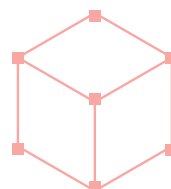
DATA SERVICES

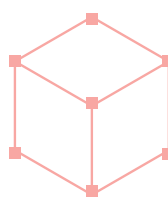
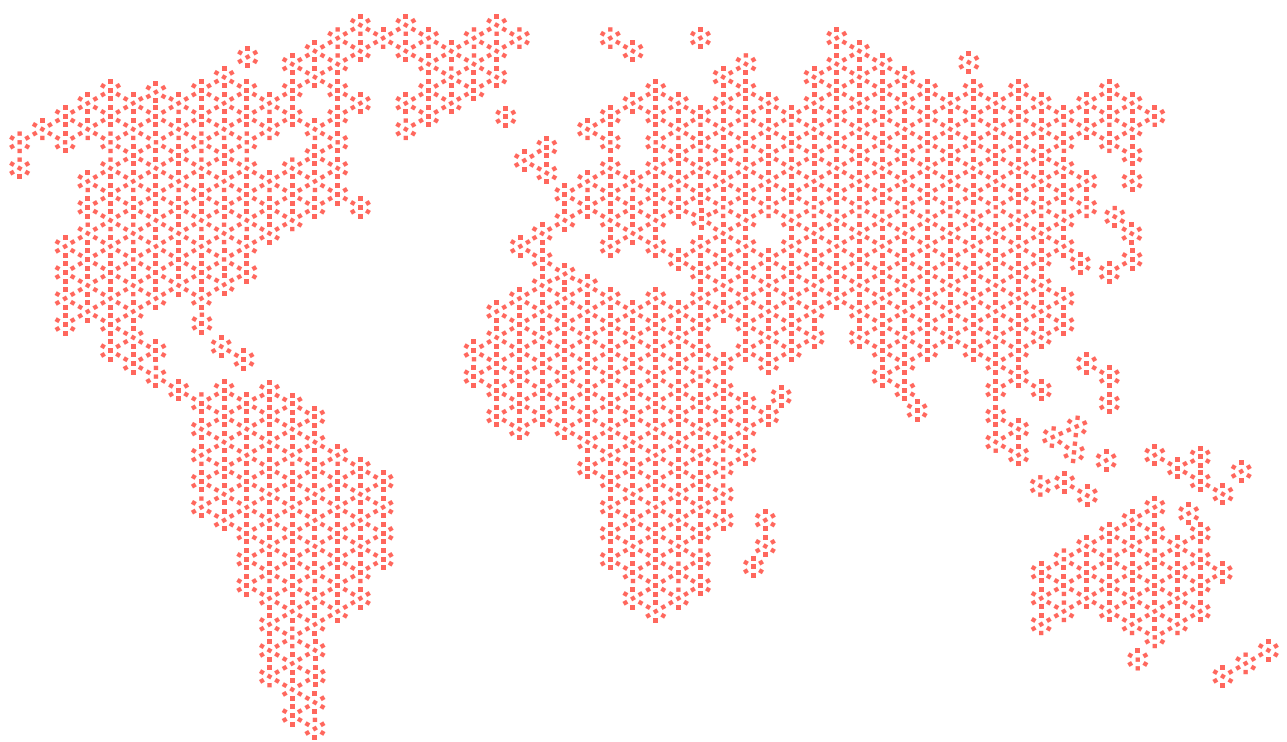
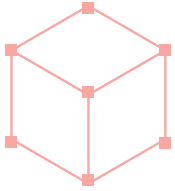
The distributed nature of data today means that data is stored in various systems: on-premises, in the cloud, and in hybrid deployments. This adds complexity for data consumers, as access methods and data formats vary greatly. The Denodo Platform for Alibaba Cloud can expose data services that simplify access to a wide variety of data sources through a unified set of access methods. These methods include JDBC/ODBC (SQL), OData, Restful, GraphQL, and GeoJSON. For developers building applications that need access to data, The Denodo Platform provides a standard interface to quality data, in a standard format, regardless of where that data may reside.

The Denodo Platform for Alibaba Cloud

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

1. Use it as cloud infrastructure, leveraging BYOL (Bring Your Own License)
 - Suited for complex deployments, providing extensive setup control
 - Offers flexibility in customizing terms and conditions
 - List price is higher, and the installation is performed by the client
2. Subscription based model via Alibaba Cloud 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 Alibaba Cloud
 - Complex deployments (multi-server, extensive dev/test environments) might cost more (no custom discounts)





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Denodo is a leader in data management. The award-winning Denodo Platform is the leading data integration, management, and delivery platform using a logical approach to enable self-service BI, data science, hybrid/multi-cloud data integration, and enterprise data services. Realizing more than 400% ROI and millions of dollars in benefits, Denodo's customers across large enterprises and mid-market companies in 30+ industries have received payback in less than 6 months.

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