The Denodo Platform for AWS

The Denodo Platform offers a fast, easy, and cost-effective way to create a data virtualization layer as part of a big data or 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.
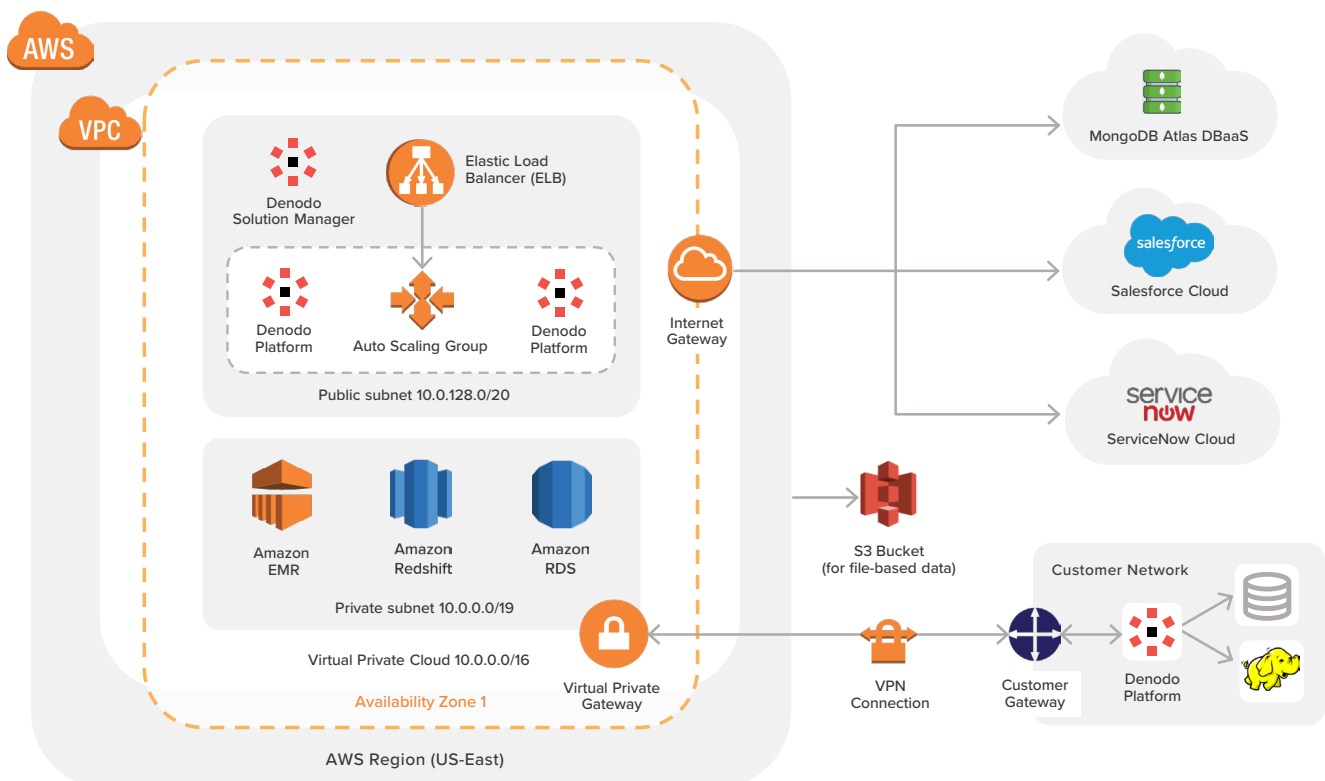
Extending the power of the the Denodo Platform for AWS accelerates the adoption of data virtualization on the highly scalable Amazon Cloud. With its Dynamic Query Optimizer, the Denodo Platform delivers breakthrough performance for big data implementations and logical data warehouses, and with self-service 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 AWS

For many cloud initiatives, the center of gravity for the data is a moving target. It might start off being on-premises, but it is likely to shift to AWS 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 AWS, as the data becomes spread over the different locations.

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

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

SOLUTION
Denodo Platform for AWS

INDUSTRY
Applies to all industries

PRODUCT OVERVIEW
Denodo Platform for AWS 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 AWS and how to get started.

In theory, when the bulk of the data resides on AWS, the Denodo Platform could reside solely on AWS. 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 the Denodo Platform for AWS:

- Lower total cost of ownership for hardware, software, and IT infrastructure
- Supports subscription based services, such as CAPEX pricing models (pay as you go)
- Faster provisioning of IT environments with seamless integration with container services, for enhanced enterprise-wide orchestration
- AWS Cloud offers auto scaling and the ability to manage workloads across cloud and on-premises systems
- Enables a strong focus on meeting business challenges rather than expending resources on ad-hoc technical problems
- Offers simplified high availability and fallback capabilities for EC2 instances, for improved stability at the storage level

Connecting to Key Data Sources in the Cloud

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

- **Amazon Redshift & RDS** (Aurora, MariaDB, Microsoft SQL Server, MySQL, Oracle, PostgreSQL) – Connect using the Redshift JDBC driver or the native RDS JDBC drivers.
- **Amazon Elastic Map Reduce** (EMR) – EMR is Amazon's Hadoop service running on AWS. It supports the standard Hadoop components and interfaces, such as Hive, HBase, HCatalog, Impala, Spark SQL, and HDFS.
- **Amazon S3 files** – Access data stored in S3 files directly from the Denodo Platform. Access CSV, JSON, XML, delimited, and Parquet files stored in S3 buckets. The Denodo Platform has a special connector for directly accessing S3 files.
- **Snowflake, DataBricks, Presto** – Snowflake is a cloud-based data-warehouse-as-a-service (DWaaS) on AWS. You can connect to Snowflake using the Snowflake JDBC driver. 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 Salesforce, ServiceNow, and Microsoft Dynamics 365.

Use Cases for the Denodo Platform for AWS

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

The key use cases are:

1. Analytics in the Cloud
2. Cloud Data Gateway
3. Cloud Modernization
4. Multi-Cloud (or multi-region) Integration
5. Cloud Migration and SaaS application Integration
6. Compliance and Archived Data Reporting

Denodo Platform for AWS

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

1. Use it as an infrastructure, leveraging BYOL (Bring Your Own License) to the 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 AWS 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 AWS
   - Complex deployments (multi-server, extensive dev/test environments) might cost more (no custom discounts)

Consider taking a **free test drive** which offers a head start in learning about the setup and usage of the Denodo Platform for AWS.

SUCCESSFUL CLOUD MODERNIZATION WITH THE DENODO PLATFORM FOR AWS

asurion

logitech

getsmarter

AUTODESK.

AMGEN

TESCO

denodo

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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