

Authorization for Denodo

Securely connecting identities to digital assets,
Powered by Policy Based Access Control (PBAC)



Dynamic Authorization for Data Virtualization

Leading data virtualization platform, Denodo, enables enterprises to gain valuable insight from disparate data sources and types. With the rapid growth of data, there is growing pressure on enterprises and their security and data teams to ensure data is not exposed to unauthorized users.

Authorization has traditionally been built into individual, homegrown applications. However, this method is not scalable nor secure. Data that was protected by the data source's authorization has been uplifted to the data virtualization layer. Rules that were built for original database sources must be rebuilt in Denodo's security layer in order to secure data access across all applications.

PlainID eliminates these challenges by externalizing authorization and centralizing its management via The PlainID Authorization Platform. Enforcement is then distributed to the **PlainID Authorizer for Denodo** which sits inside the Denodo security layer and addresses data security at scale dynamically for all users who access Denodo for business intelligence and data projects.

For example, when a user attempts to access data, the Authorizer intercepts data requests made to Denodo and checks whether they meet the prescribed conditions (e.g. location, risk score, etc.). Stricter conditions can be set for sensitive data down to the row, column, and even cell-level.

Ultimately, PlainID strengthens data security for Denodo by ensuring users are only able to see certain data based on who they are, and where they're accessing the data from.

Benefits

Unified Policy Management

Manage access to Denodo objects with PlainID's graphical UI to provide consistent access decisions across enterprise applications.

Coarse & Fine-grained Authorization

Enforce fine-grained controls at a granular level by determining what rows/columns/cell data are exposed to the authorized user.

Full Visibility of Data Access

Gain bi-directional view of the relationship between users and data assets and investigate the attack surface of sensitive data.

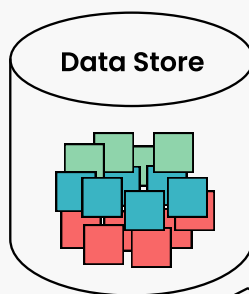
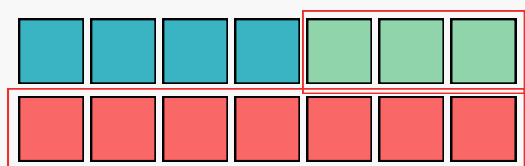
Consistently Control Data

Deliver control over data across any layer in the stack by externalizing authorization with the PlainID Authorization Platform.

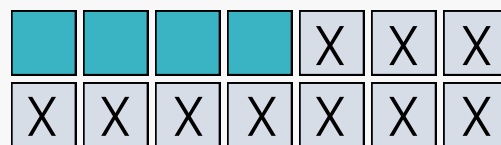
Improving Data Security & Application Performance



Scenario 1: The user is authorized to see **only blue cube** data, yet other data is exposed



Scenario 2: The user is authorized to see **only blue cube** data **and** only blue cube data is exposed



Application

PlainID Authorizer™
(Data Services/Data Gateway
/Network Proxy)

Application

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Dynamic Authorization at Query Runtime

Data is traditionally accessed without authorization of the user in mind. It's often fetched using a service account, with too many permissions. Applications will typically retrieve all data and mask information at the middleware or service mesh layer, which creates vulnerabilities for sensitive data.

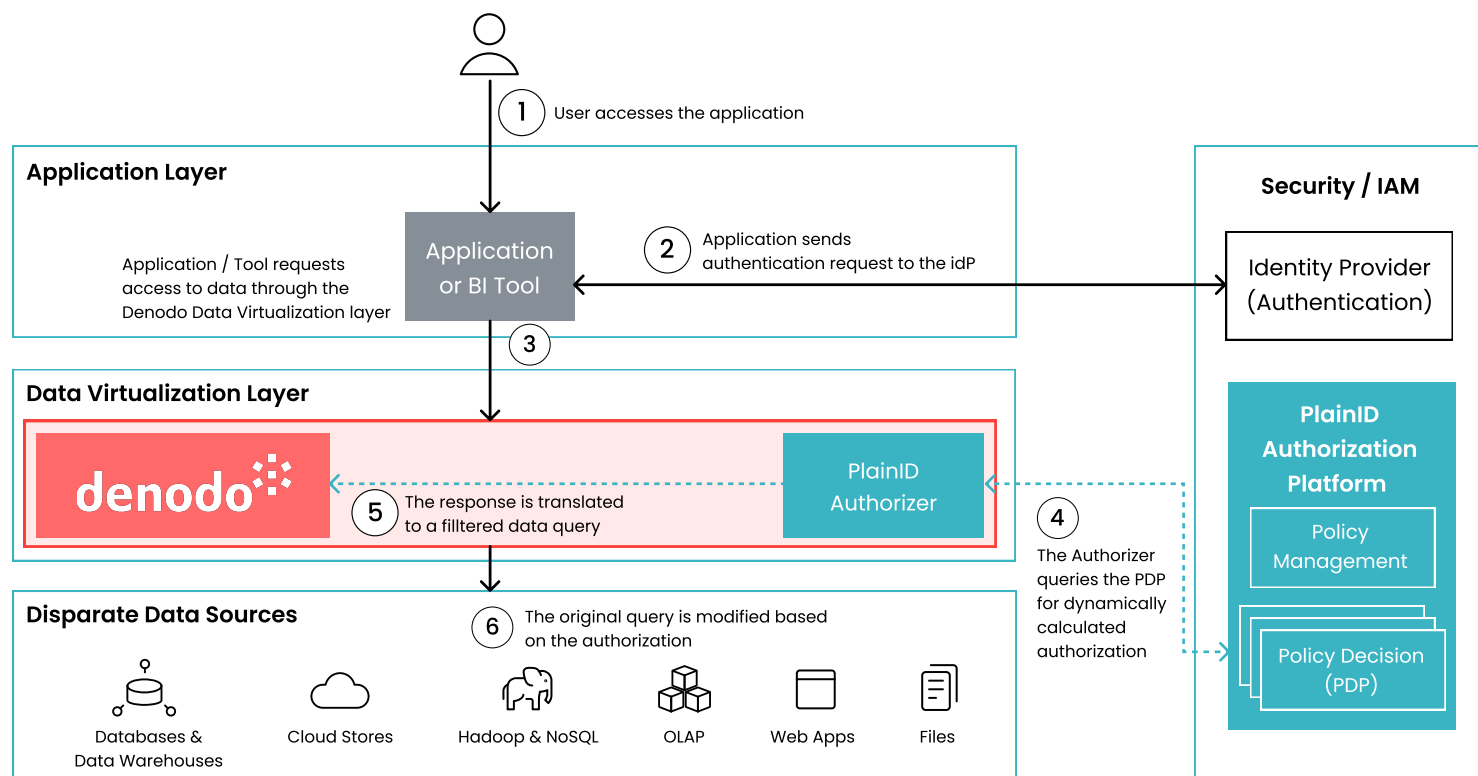
The PlainID Authorizer for Denodo dynamically modifies the query at runtime to return only data the user is authorized to see. A simple example from this:

```
select * from sales_table;
```

Whereas, PlainID's Policy-based Access Control (PBAC) restricts the query to return data only in the user's assigned region:

```
select name, company, amount from sales_table where sales_table.region = {user.region};
```

Solution Architecture



About PlainID

PlainID, the Authorization Company, simplifies the complexity businesses face when securely connecting identities to digital assets. Powered by PBAC, PlainID provides a SaaS-based, centralized policy management platform with decentralized enforcement to manage who can access what across the enterprise technology stack; including applications, data, API, microservices and more.

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