pyramid
from ServiceNow

Connecting to Power BI Data Sources v1.0

Pyramid Analytics to Power BI (DS) connectivity

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Overview

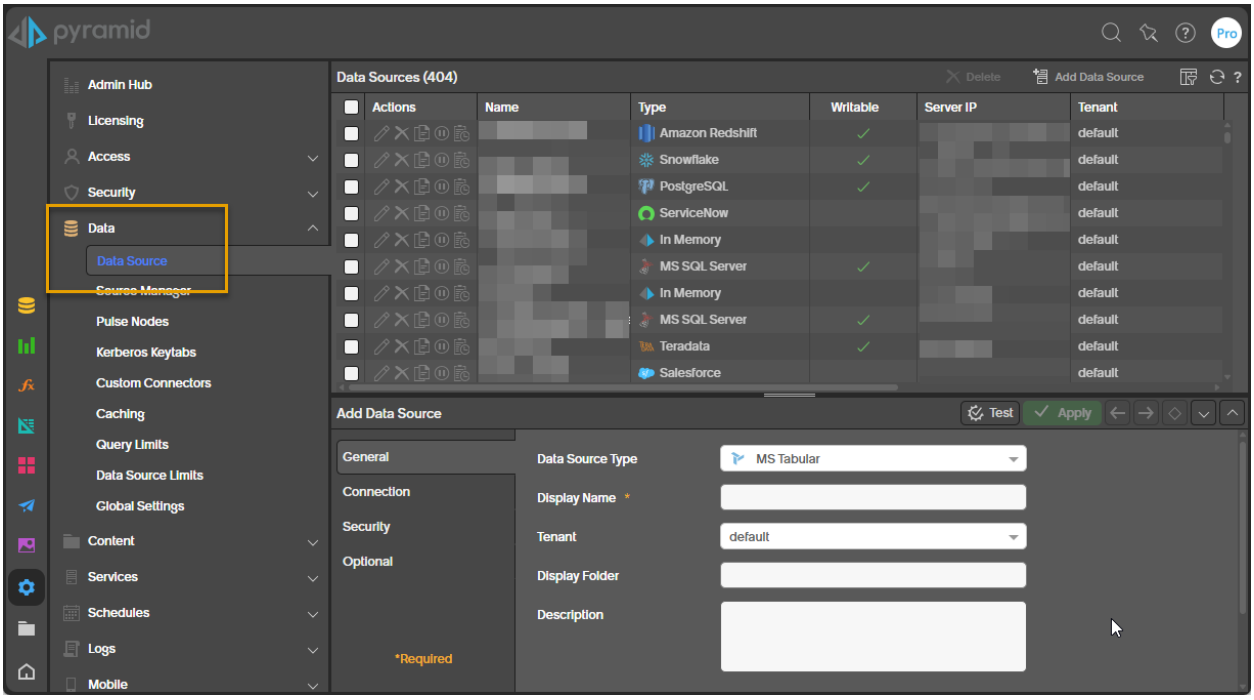
This document explains how to connect Pyramid Analytics to Power BI semantic models, enabling Pyramid to query live data directly from existing Power BI semantic models. This approach avoids rebuilding semantic models or data duplication, while preserving existing security and governance.

The following steps describe a repeatable pattern that can be used whenever a team needs to connect Pyramid to a governed Power BI dataset, rather than rebuilding the configuration from scratch.

Important: This process assumes you already have an application that you will use as a user with read-access.

Configuring the Connection in Pyramid

For each setting, use the specified value or format and refer to the corresponding configuration screen. You can View, Add, and Edit your data source as an **MS Tabular** data source type in the Admin Console under **Data > Data Sources**.



Note: This is the view through which you set up any Data Source in Pyramid. Only the Power BI-specific details are described in this document. For other information, see Data Source in the Pyramid help materials.

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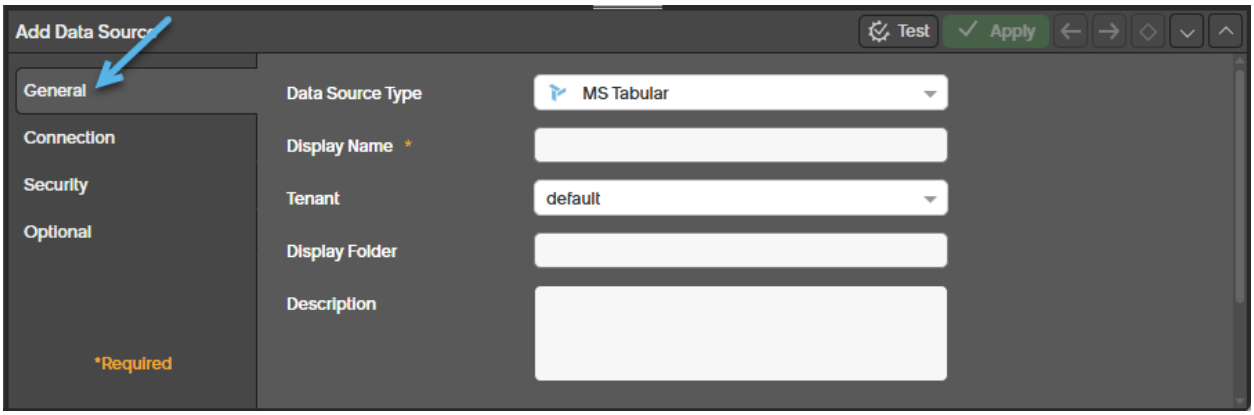
General tab

On the General tab (blue arrow below) of the Add Data Source panel, select the **MS Tabular** data source type:



Note that this option is selected because Pyramid Analytics reads the Power BI dataset using the Analysis Services tabular data format.

Connection tab

Server Name or IP Address

Specify the **Server name** using the following format:

```
powerbi://api.powerbi.com/v1.0/<tenant>/<workspace-name>
```

Use this exact format. Replace **<tenant>** and **<workspace-name>** with the Power BI tenant and workspace values.

Connection Type

Select **Power BI Workspace** from the Connection Type dropdown list.

Security tab

On the Security tab, specify the following settings:

- **Azure Account Access:** Select the option **Use EffectiveUserName - Proxy 1**.
- **User or UPN:** Specify the service principal identity in the format `app:<appId>@<tenantId>` Where **<appId>** and **<tenantId>** are replaced with the service principal details (see below).

Important: The Pyramid Analytics user account credentials in Proxy Account 1 must map to the matching Microsoft Entra ID UPN, so Power BI applies the correct user's access rights.

Alternative Azure Account Access

The preceding details describe the options defined for Azure Account Access when following the pattern. You can actually select any of the options from the **Azure Account Access** dropdown list depending on your setup:

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- **Use EffectiveUserName - Proxy 2:** Use the user account credentials in Proxy Account 2, with details as described above for Proxy Account 1.
- **Use CustomData:** Where a programmatic connection is made to Pyramid, populate the Domain option with the custom data value used when connecting through the API (this value identifies the MS user that drives the Power BI authentication).
- **Don't use Cube security:** Ignore user-level security on a cube altogether. Using this option still requires an admin account to connect, but the details per user will be ignored.

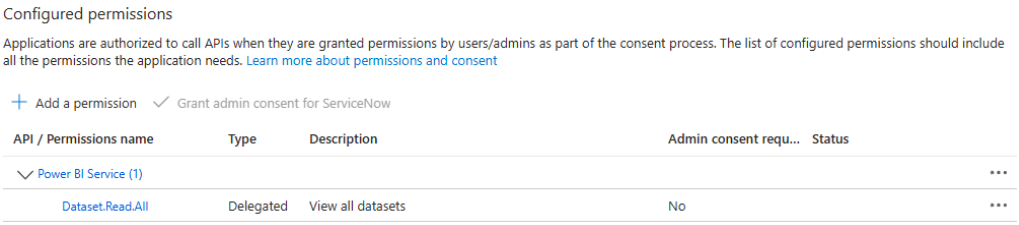
For more information, see Microsoft Analysis Services Setup in the Pyramid help materials.

Service principal

Value / format:

Azure Service Principal with Power BI Service Dataset.Read.All

Use this service principal's application ID as **<appId>**. Grant the service principal the Power BI Service **Dataset.Read.All** permission and access to the target Power BI workspace.



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