Using AtScale With Microsoft Power BI Desktop

This section describes how to connect to AtScale from Microsoft Power BI Desktop.

Prerequisites

Before connecting to Power BI Desktop, do the following:

- Ensure you are using a supported version of Microsoft Power BI Desktop. For details, see AtScale Supported Tools and Platforms.
- Deploy the catalog that contains the model you want to connect to. For details, see Deploying Catalogs.

Setting Up Authentication

You need to ensure authentication is configured in one of the following ways.

Token-Based Authentication

The `xmla.auth.token.enabled` engine setting must be enabled. For more information, see Changing Engine Settings.

Windows Authentication

AtScale must be configured to use either Kerberos or NTLM. You can set this up via the Identity Broker. For more information, see Configuring Kerberos and Connecting to Active Directory via NTLM Pass-Through (Netlogon).

Optionally, you can enable Xpress compression to improve the communication. To do this, you can the turn on `soap.xpress.enabled` engine setting. For more information, see Changing Engine Settings.

Connecting Power BI Desktop To An AtScale Model

1. In Design Center, obtain the connection string for the catalog you want to connect to.

If you are using token-based authentication:

1. Click the profile icon in the top right corner of Design Center. The **Account** panel opens.
2. Click **Generate XMLA** token.
3. Open the **Deployed Catalogs** panel, then open the catalog you want to connect to.
4. On the **Connect** tab, copy the **MDX + Token** connection string.

If you are using Windows Authentication:

1. Open the **Deployed Catalogs** panel, then open the catalog you want to connect to.
2. On the **Connect** tab, copy the **MDX** connection string.

2. In Microsoft Power BI Desktop, select **Get Data** > **Analysis Services**.
3. In the dialog's **Server** field, enter the connection string you copied above.
4. (Optional) In the **Database** field, enter the name of the AtScale catalog you're connecting to.
5. Select the **Connect Live** option.

   AtScale does not recommend using the **Import** option, as this is equivalent to exporting your entire dataset in model form. AtScale will deliberately fail export queries that exceed a complexity threshold to prevent service disruption. If you want to export data from AtScale, contact your Account Executive for more information.

6. Do not enter an MDX or DAX query as a connection parameter. AtScale does not support this feature.
7. Click **OK**.
8. Select your catalog and model from the **Display Options** dropdown, then click **OK**.

Power BI will connect to AtScale and return a representation of the model in the Fields Pane.

What To Do Next

- ▲ Build your report in Power BI. For details, see Create reports and dashboards in Power BI.
- ▲ Review the list of AtScale's Power BI Known Issues.
- ▲ Configure Power BI Service Integration and publish your report to Power BI Service.