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How to connect Microsoft Power BI to the PI Data Archive using the PI OLEDB Provider

Applies to: PI OLEDB Provider- 0.01, 3.4.2.17, 3.4.1.28, 3.3.1.2, 3.3.0.1.1, 3.3.0.1.2, 3.2.7.0.2, 3.1.8.0.1, 3.1.7.0.1, 3.1.6.0.1, 3.1.5.0.1, 3.1.4.0.1, 3.1.3.0.1, 3.1.2.0.1, 3.1.1.0.1, 3.1.0.0.1, 3.0.9.0.1, 3.0.8.0.1, 3.0.7.0.1, 3.0.6.0.1, 3.0.5.0.1, 3.0.4.0.1, 3.0.3.0.1, 3.0.2.0.1, 3.0.1.0.1, 3.0.0.0.1, 2.9.9.0.1, 2.9.8.0.1, 2.9.7.0.1, 2.9.6.0.1, 2.9.5.0.1, 2.9.4.0.1, 2.9.3.0.1, 2.9.2.0.1, 2.9.1.0.1, 2.9.0.0.1, 2.8.9.0.1, 2.8.8.0.1, 2.8.7.0.1, 2.8.6.0.1, 2.8.5.0.1, 2.8.4.0.1, 2.8.3.0.1, 2.8.2.0.1, 2.8.1.0.1, 2.8.0.0.1, 2.7.9.0.1, 2.7.8.0.1, 2.7.7.0.1, 2.7.6.0.1, 2.7.5.0.1, 2.7.4.0.1, 2.7.3.0.1, 2.7.2.0.1, 2.7.1.0.1, 2.7.0.0.1, 2.6.9.0.1, 2.6.8.0.1, 2.6.7.0.1, 2.6.6.0.1, 2.6.5.0.1, 2.6.4.0.1, 2.6.3.0.1, 2.6.2.0.1, 2.6.1.0.1, 2.6.0.0.1, 2.5.9.0.1, 2.5.8.0.1, 2.5.7.0.1, 2.5.6.0.1, 2.5.5.0.1, 2.5.4.0.1, 2.5.3.0.1, 2.5.2.0.1, 2.5.1.0.1, 2.5.0.0.1, 2.4.9.0.1, 2.4.8.0.1, 2.4.7.0.1, 2.4.6.0.1, 2.4.5.0.1, 2.4.4.0.1, 2.4.3.0.1, 2.4.2.0.1, 2.4.1.0.1, 2.4.0.0.1, 2.3.9.0.1, 2.3.8.0.1, 2.3.7.0.1, 2.3.6.0.1, 2.3.5.0.1, 2.3.4.0.1, 2.3.3.0.1, 2.3.2.0.1, 2.3.1.0.1, 2.3.0.0.1, 2.2.9.0.1, 2.2.8.0.1, 2.2.7.0.1, 2.2.6.0.1, 2.2.5.0.1, 2.2.4.0.1, 2.2.3.0.1, 2.2.2.0.1, 2.2.1.0.1, 2.2.0.0.1, 2.1.9.0.1, 2.1.8.0.1, 2.1.7.0.1, 2.1.6.0.1, 2.1.5.0.1, 2.1.4.0.1, 2.1.3.0.1, 2.1.2.0.1, 2.1.1.0.1, 2.1.0.0.1, 2.0.9.0.1, 2.0.8.0.1, 2.0.7.0.1, 2.0.6.0.1, 2.0.5.0.1, 2.0.4.0.1, 2.0.3.0.1, 2.0.2.0.1, 2.0.1.0.1, 2.0.0.0.1, 1.9.9.0.1, 1.9.8.0.1, 1.9.7.0.1, 1.9.6.0.1, 1.9.5.0.1, 1.9.4.0.1, 1.9.3.0.1, 1.9.2.0.1, 1.9.1.0.1, 1.9.0.0.1, 1.8.9.0.1, 1.8.8.0.1, 1.8.7.0.1, 1.8.6.0.1, 1.8.5.0.1, 1.8.4.0.1, 1.8.3.0.1, 1.8.2.0.1, 1.8.1.0.1, 1.8.0.0.1, 1.7.9.0.1, 1.7.8.0.1, 1.7.7.0.1, 1.7.6.0.1, 1.7.5.0.1, 1.7.4.0.1, 1.7.3.0.1, 1.7.2.0.1, 1.7.1.0.1, 1.7.0.0.1, 1.6.9.0.1, 1.6.8.0.1, 1.6.7.0.1, 1.6.6.0.1, 1.6.5.0.1, 1.6.4.0.1, 1.6.3.0.1, 1.6.2.0.1, 1.6.1.0.1, 1.6.0.0.1, 1.5.9.0.1, 1.5.8.0.1, 1.5.7.0.1, 1.5.6.0.1, 1.5.5.0.1, 1.5.4.0.1, 1.5.3.0.1, 1.5.2.0.1, 1.5.1.0.1, 1.5.0.0.1, 1.4.9.0.1, 1.4.8.0.1, 1.4.7.0.1, 1.4.6.0.1, 1.4.5.0.1, 1.4.4.0.1, 1.4.3.0.1, 1.4.2.0.1, 1.4.1.0.1, 1.4.0.0.1, 1.3.9.0.1, 1.3.8.0.1, 1.3.7.0.1, 1.3.6.0.1, 1.3.5.0.1, 1.3.4.0.1, 1.3.3.0.1, 1.3.2.0.1, 1.3.1.0.1, 1.3.0.0.1, 1.2.9.0.1, 1.2.8.0.1, 1.2.7.0.1, 1.2.6.0.1, 1.2.5.0.1, 1.2.4.0.1, 1.2.3.0.1, 1.2.2.0.1, 1.2.1.0.1, 1.2.0.0.1, 1.1.9.0.1, 1.1.8.0.1, 1.1.7.0.1, 1.1.6.0.1, 1.1.5.0.1, 1.1.4.0.1, 1.1.3.0.1, 1.1.2.0.1, 1.1.1.0.1, 1.1.0.0.1, 1.0.9.0.1, 1.0.8.0.1, 1.0.7.0.1, 1.0.6.0.1, 1.0.5.0.1, 1.0.4.0.1, 1.0.3.0.1, 1.0.2.0.1, 1.0.1.0.1, 1.0.0.0.1, 0.9.9.0.1, 0.9.8.0.1, 0.9.7.0.1, 0.9.6.0.1, 0.9.5.0.1, 0.9.4.0.1, 0.9.3.0.1, 0.9.2.0.1, 0.9.1.0.1, 0.9.0.0.1, 0.8.9.0.1, 0.8.8.0.1, 0.8.7.0.1, 0.8.6.0.1, 0.8.5.0.1, 0.8.4.0.1, 0.8.3.0.1, 0.8.2.0.1, 0.8.1.0.1, 0.8.0.0.1, 0.7.9.0.1, 0.7.8.0.1, 0.7.7.0.1, 0.7.6.0.1, 0.7.5.0.1, 0.7.4.0.1, 0.7.3.0.1, 0.7.2.0.1, 0.7.1.0.1, 0.7.0.0.1, 0.6.9.0.1, 0.6.8.0.1, 0.6.7.0.1, 0.6.6.0.1, 0.6.5.0.1, 0.6.4.0.1, 0.6.3.0.1, 0.6.2.0.1, 0.6.1.0.1, 0.6.0.0.1, 0.5.9.0.1, 0.5.8.0.1, 0.5.7.0.1, 0.5.6.0.1, 0.5.5.0.1, 0.5.4.0.1, 0.5.3.0.1, 0.5.2.0.1, 0.5.1.0.1, 0.5.0.0.1, 0.4.9.0.1, 0.4.8.0.1, 0.4.7.0.1, 0.4.6.0.1, 0.4.5.0.1, 0.4.4.0.1, 0.4.3.0.1, 0.4.2.0.1, 0.4.1.0.1, 0.4.0.0.1, 0.3.9.0.1, 0.3.8.0.1, 0.3.7.0.1, 0.3.6.0.1, 0.3.5.0.1, 0.3.4.0.1, 0.3.3.0.1, 0.3.2.0.1, 0.3.1.0.1, 0.3.0.0.1, 0.2.9.0.1, 0.2.8.0.1, 0.2.7.0.1, 0.2.6.0.1, 0.2.5.0.1, 0.2.4.0.1, 0.2.3.0.1, 0.2.2.0.1, 0.2.1.0.1, 0.2.0.0.1, 0.1.9.0.1, 0.1.8.0.1, 0.1.7.0.1, 0.1.6.0.1, 0.1.5.0.1, 0.1.4.0.1, 0.1.3.0.1, 0.1.2.0.1, 0.1.1.0.1, 0.1.0.0.1, 0.0.9.0.1, 0.0.8.0.1, 0.0.7.0.1, 0.0.6.0.1, 0.0.5.0.1, 0.0.4.0.1, 0.0.3.0.1, 0.0.2.0.1, 0.0.1.0.1, 0.0.0.0.1

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SOLUTION NOT VERIFIED - Updated on May 28, 2019 - English

Issue

When trying to retrieve PI data to Power BI using an OLE DB connection, I get the following error message:

OLE DB: [PI SDK] Unable to open a session on a server. The user name and password may be incorrect.

Environment

- Microsoft Power BI
- PI OLEDB Provider
- PI Data Archive

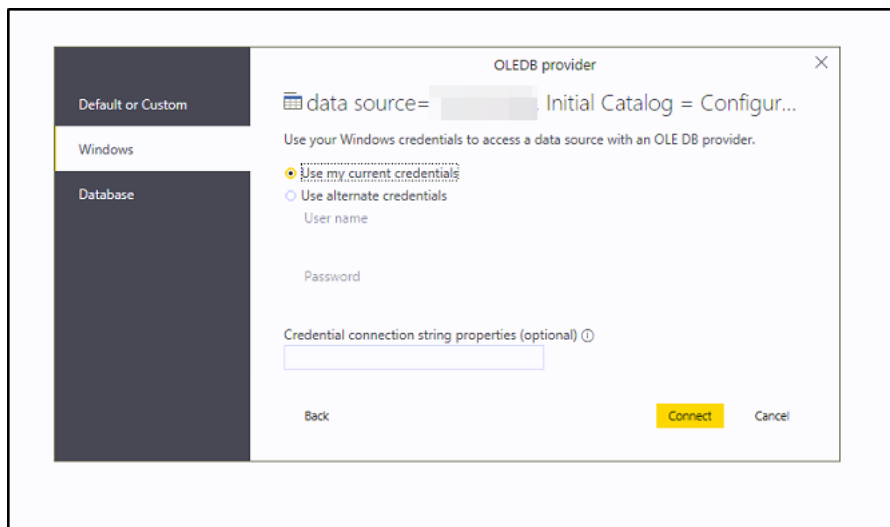
Solution

Creating a new Power BI report using PI OLDEB Provider

1. Power BI > New > Get Data
2. Select the type - in this case, **OLE DB**
3. Click on **Connect** button
4. Click on the **Build** button
5. On the Provider tab, select **PI OLEDB Provider**
6. On the Connection tab
 - a. Provide the PI Data Archive Server or Collective name on the Data Source field
 - b. Select "Use Windows NT Integrator security"
 - c. Select the initial catalog to use from the drop-down list (e.g: piarchive)
 - d. Click on Test Connection and make sure whether you can connect
 - e. Click OK button
7. Append "Initial Catalog" with appropriate Catalog name (e.g: Initial Catalog = piarchive)
8. Connection string should be similar to:

provider=PIOLEDB.1;data source=Avengers; Initial Catalog = piarchive

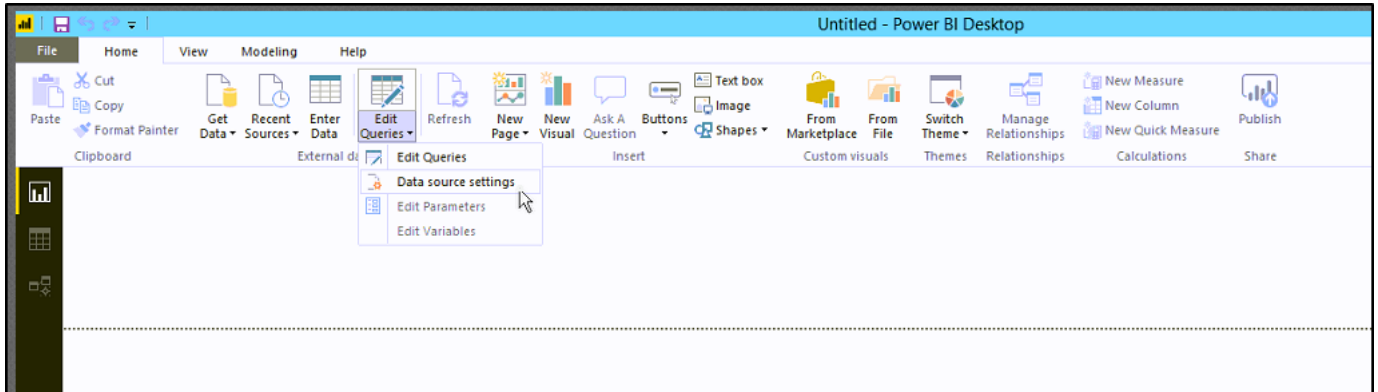
9. Provide a query under **Advance options** (you may have to click on the arrow to expand the window)
10. Hit **OK** button
11. From the next prompt, **click on the Windows tab** and select "Use my current credentials" (the user running the Power BI application should have the appropriate permissions on the PI Data Archive)



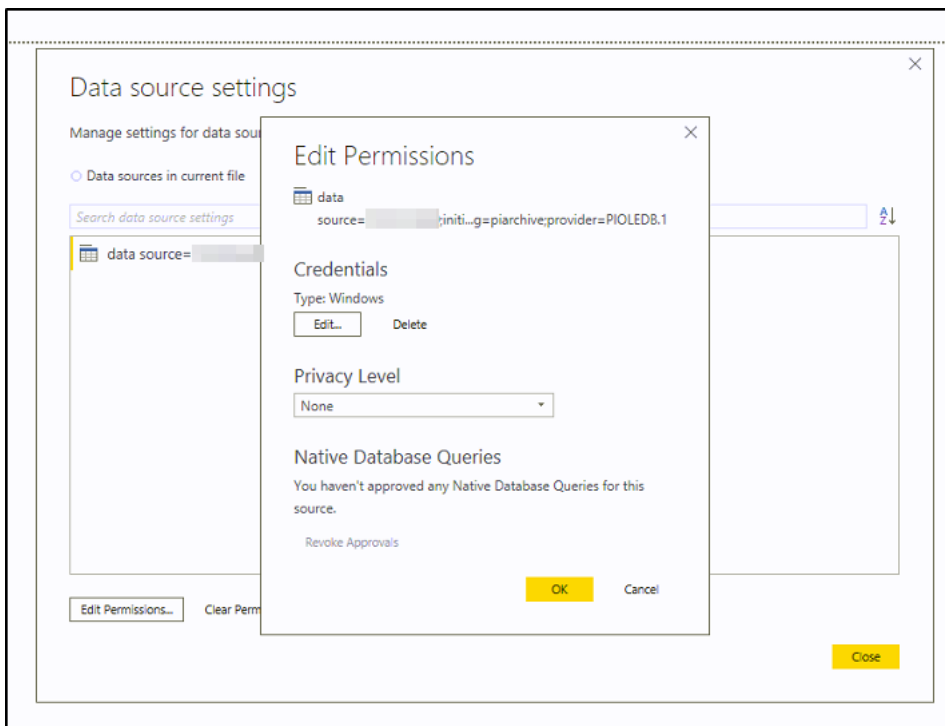
12. Hit **Connect** button
13. Edit schema if it is necessary and click on the **Load** button
14. At this point, we have brought the data to Power BI. The next step is just designing the report.

How to change the authentication method in an existing report

1. On the design page, click on **Edit Queries** drop down > **Data source settings**



2. Click on the Data source that you want to configure the security settings to select it
3. Click on the **Edit Permissions...** button
4. Click on the **Edit...** button and change the authentication settings (in our case we need to select "Use my current credentials")



5. Click on **OK** button
6. Click on **Save** buttons
7. Finally, click on the **Close** button

Cause

Didn't find what you were looking for?



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