


Enter client credentials in Power BI or Excel

04/04/2019 • 4 minutos para ler • Colaboradores 

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When connecting from Power BI or Excel to the Analytics Service using the OData feed, choose Windows credentials as the most secure option. The next secure option is the use of Personal Access Tokens (PATs).

Observação

The **Analytics Service** is in preview for Azure DevOps Server 2019. While in preview, it is available to everyone free of charge. We encourage you to use it and provide us feedback. As we add features, we will post them on the [Microsoft DevOps Blog](#).

You access the Analytics Service by installing the [Analytics Marketplace extension](#). Installing it provides several [advanced widgets](#), [Power BI integration](#), and access to the [OData feed](#).

If you are looking for information about Azure Analysis Services, see [Azure Analysis Services](#).

Why use a Personal Access Token over an Alternate Access Credential?

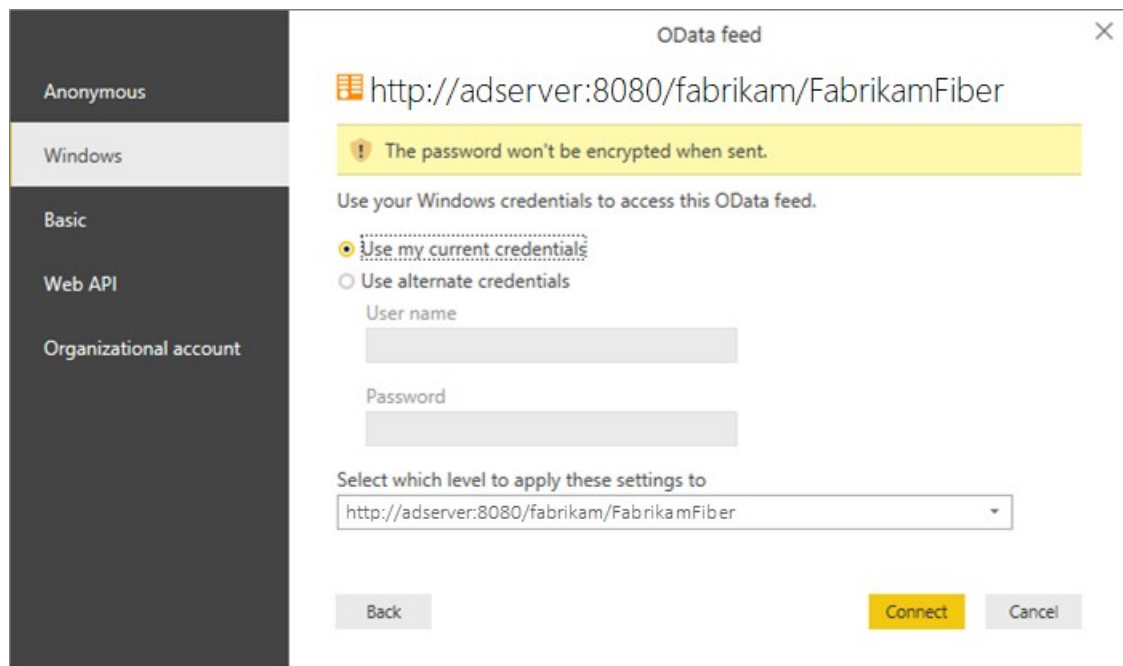
For these three reasons:

- As part of good password management, these tokens automatically expire so you don't have to remember to change your password
- Since PATs are a generated password, you won't use a common password as part of your AAC, which means a more limited surface area for attack
- If you need to provide a diagnostic trace and forget to replace the value, you can simply revoke the credential thereby maintaining secure access to Azure DevOps.

Windows

You can use Windows authentication in [PowerBI.com](#) through OAuth selection when configuring data refresh.

1. When connecting with Power BI Desktop you will be prompted to enter your credentials for the data source. Click Windows as shown here:

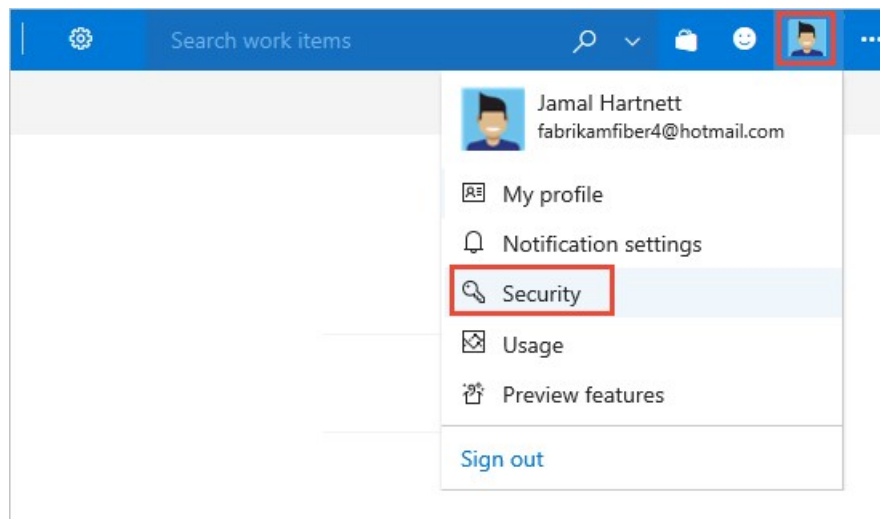


2. Enter your Windows credentials and choose **Connect**.

To change an existing URL to use Windows instead of a PAT, see [Change authentication credentials](#) later in this article.

Create a Personal Access Token

1. Sign in to Azure DevOps Services, open your user profile menu, and select **Security**.



2. Enter the required information:

- Add a description
- Set the expiration period
- Select the organization
- Choose Selected scopes
- Check the **Analytics (read)**

And, then choose **Create Token**.

Create a personal access token

Applications that work outside the browser may require access to your projects. Generate personal access tokens for applications that require a username and password.

Description:

Expires In:

Organizations:

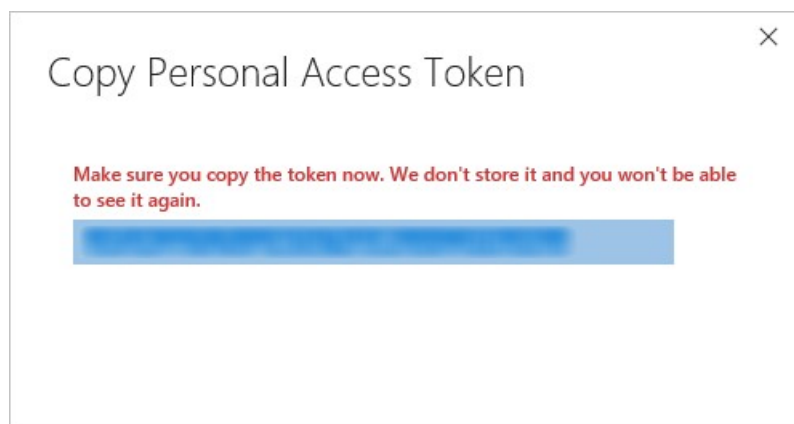
Authorized Scopes

☐ All scopes

☒ Selected scopes

<input type="checkbox"/> Agent Pools (read)	<input type="checkbox"/> Agent Pools (read, manage)	<input checked="" type="checkbox"/> Analytics (read)
<input type="checkbox"/> Build (read and execute)	<input type="checkbox"/> Build (read)	<input type="checkbox"/> Code (full)
<input type="checkbox"/> Code (read and write)	<input type="checkbox"/> Code (read)	<input type="checkbox"/> Code (read, write, and manage)
<input type="checkbox"/> Code (status)	<input type="checkbox"/> Connected Server	<input type="checkbox"/> Deployment group (read, manage)
<input type="checkbox"/> Entitlements (Read)	<input type="checkbox"/> Extension data (read and write)	<input type="checkbox"/> Extension data (read)
<input type="checkbox"/> Extensions (read and manage)	<input type="checkbox"/> Extensions (read)	<input type="checkbox"/> Graph (manage)
<input type="checkbox"/> Graph (read)	<input type="checkbox"/> Identity (manage)	<input type="checkbox"/> Identity (read)
<input type="checkbox"/> Load test (read and write)	<input type="checkbox"/> Load test (read)	<input type="checkbox"/> Marketplace
<input type="checkbox"/> Marketplace (acquire)	<input type="checkbox"/> Marketplace (manage)	<input type="checkbox"/> Marketplace (publish)
<input type="checkbox"/> MemberEntitlement Management (read)	<input type="checkbox"/> MemberEntitlement Management (write)	<input type="checkbox"/> Notifications (diagnostics)
<input type="checkbox"/> Notifications (manage)	<input type="checkbox"/> Notifications (read)	<input type="checkbox"/> Notifications (write)
<input type="checkbox"/> Packaging (read and write)	<input type="checkbox"/> Packaging (read)	<input type="checkbox"/> Packaging (read, write, and manage)
<input type="checkbox"/> Project and team (read and write)	<input type="checkbox"/> Project and team (read)	<input type="checkbox"/> Project and team (read, write and manage)
<input type="checkbox"/> Release (read)	<input type="checkbox"/> Release (read, write and execute)	<input type="checkbox"/> Release (read, write, execute and manage)
<input type="checkbox"/> Security (manage)	<input type="checkbox"/> Service Connections (read and query)	<input type="checkbox"/> Service Connections (read)
<input type="checkbox"/> Service Connections (read, query and manage)	<input type="checkbox"/> Symbols (read and write)	<input type="checkbox"/> Symbols (read)
<input type="checkbox"/> Symbols (read, write and manage)	<input type="checkbox"/> Task Groups (read)	<input type="checkbox"/> Task Groups (read, create and manage)
<input type="checkbox"/> Task Groups (read, create)	<input type="checkbox"/> Team dashboards (manage)	<input type="checkbox"/> Team dashboards (read)
<input type="checkbox"/> Test management (read and write)	<input type="checkbox"/> Test management (read)	<input type="checkbox"/> User profile (read)
<input type="checkbox"/> User profile (write)	<input type="checkbox"/> Wiki (read and write)	<input type="checkbox"/> Wiki (read)
<input type="checkbox"/> Work items (full)	<input type="checkbox"/> Work items (read and write)	<input type="checkbox"/> Work items (read)

3. Copy the token that displays. If you navigate away from the page, you won't be able to retrieve it later.



4. If you need to revoke a token, simply navigate to this page and choose the **Revoke** link. That token will immediately be denied access to Azure DevOps Services.

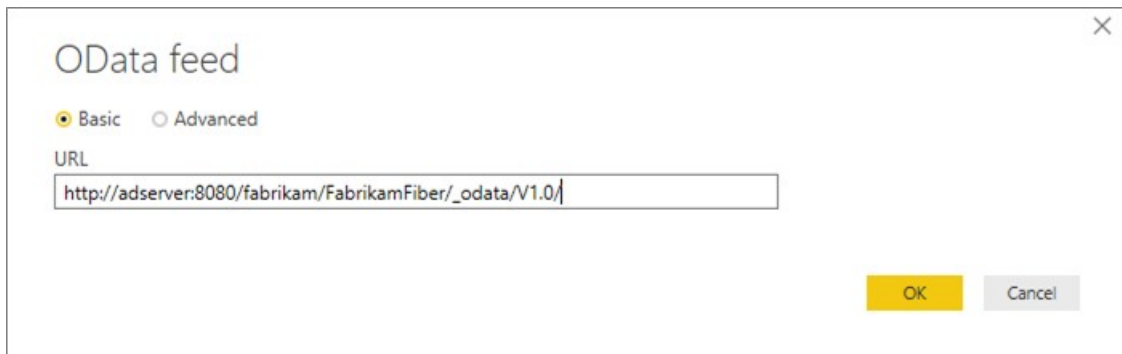
These tokens are your identity. When used, the token is acting as you. Keep your tokens secret and treat them like your password. To help keep your token more secure, consider using credential managers so

that you don't have to enter your credentials every time you push.

Enter credentials within a client

Both Power BI and Excel work using Power Query when accessing OData, therefore the authentication mechanism, including the various authentication screens are identical. This walkthrough is done using Power BI Desktop, however it also applies to Excel.

1. Open **Power BI Desktop**.
2. Choose **Get Data**.
3. Click **OData Feed** (or **More>Other>OData Feed**).
4. Enter the URL for the OData endpoint and choose **OK**.



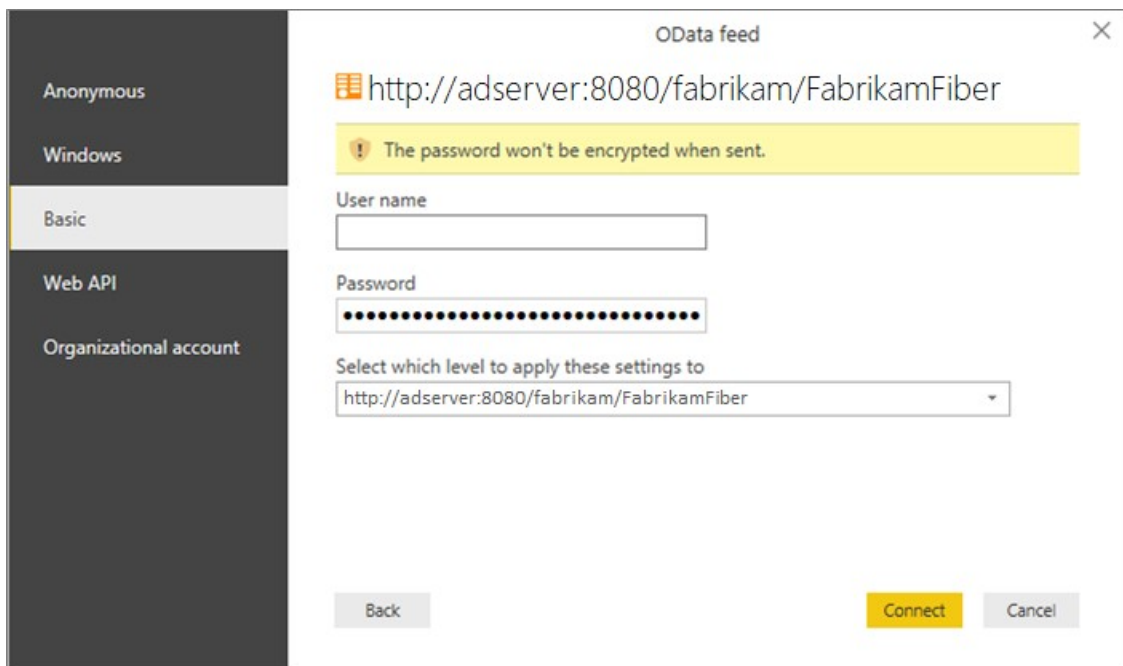
OData feed

☒ Basic ☐ Advanced

URL

5. In the authentication dialog, choose **Basic**, enter your credentials, and then choose **Connect**:

- If you are using an AAC, enter your username and password
- If you are using a PAT, enter a text string, such as "test" or "user" for the username and enter the token in the password field.



OData feed


Anonymous


Windows

Basic

Web API

Organizational account

 http://adserver:8080/fabrikam/FabrikamFiber

 The password won't be encrypted when sent.

User name

Password

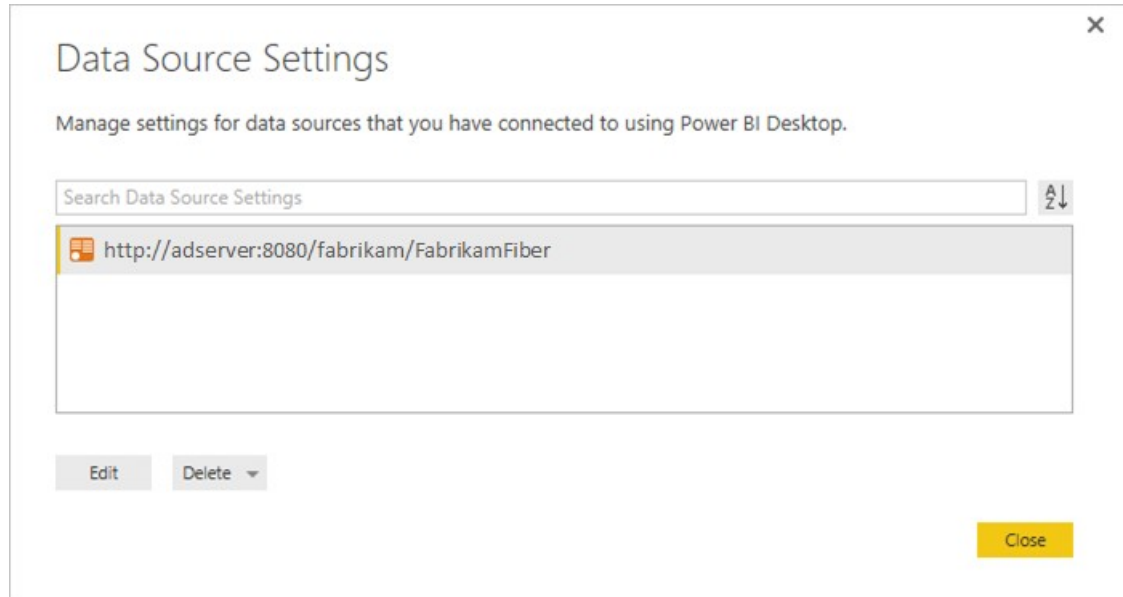
Select which level to apply these settings to

Change authentication credentials

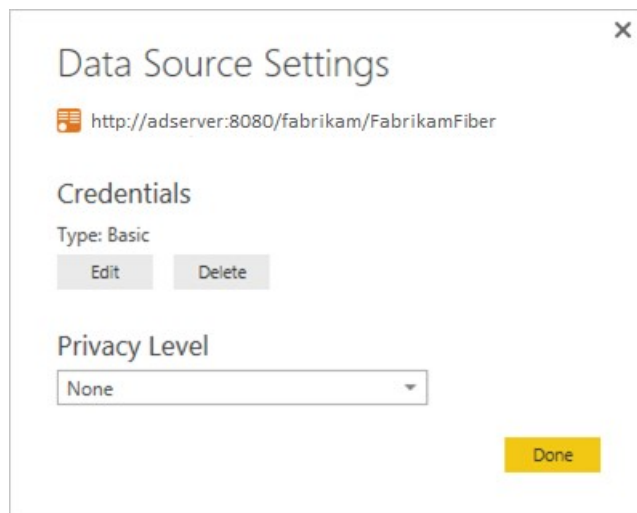
If you receive an access denied message, you may need to change your authentication credentials. Power Query caches your credential information so you only have to enter it once. However, Personal Access Tokens expire and you may need to update or change your authentication information.

Update credentials in Power BI Desktop

1. Open **Power BI Desktop**.
2. Click **File > Options and Settings > Data Source Settings**. Select the correct URL to the OData Feed and click **Edit**.



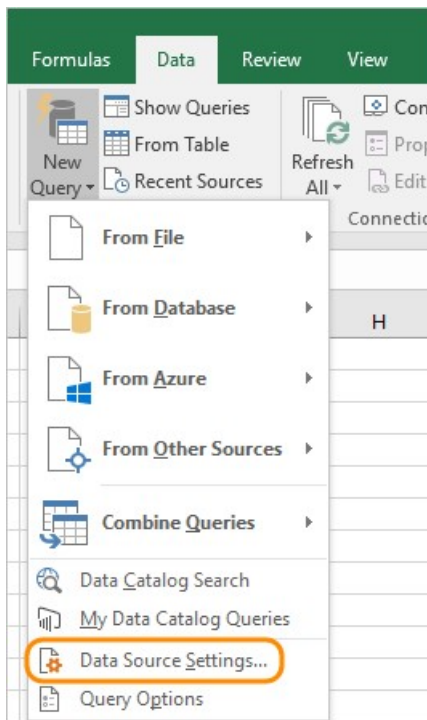
3. In the next **Data Source Settings** dialog, click the **Edit** button under the **Credentials** setting.



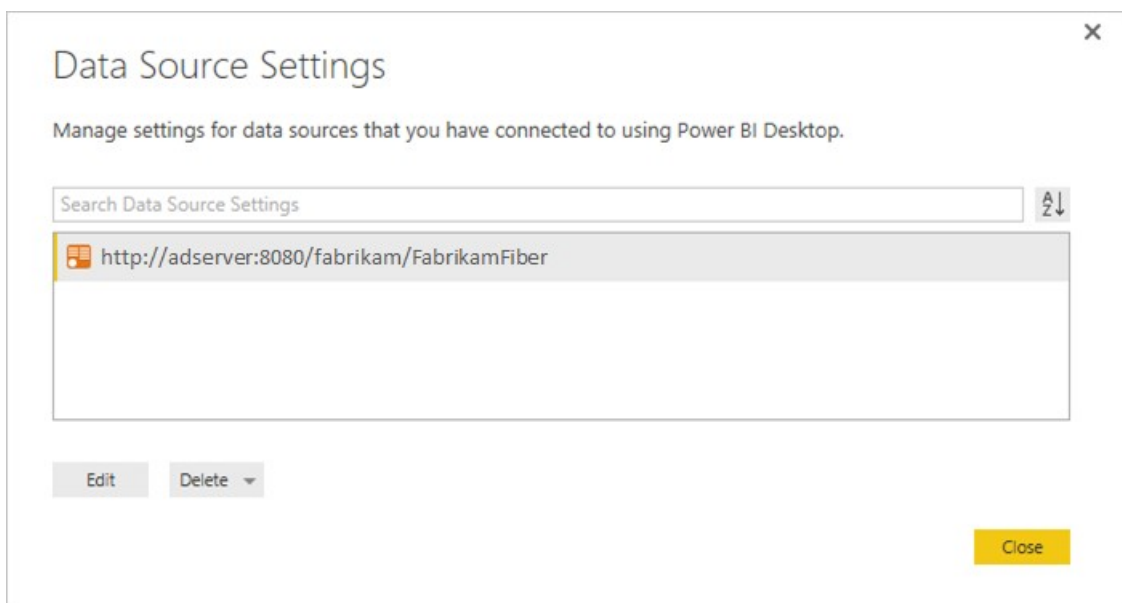
4. Edit the credentials as noted above, click **Save**, then **Done**, then **Close**.

Update credentials in Excel

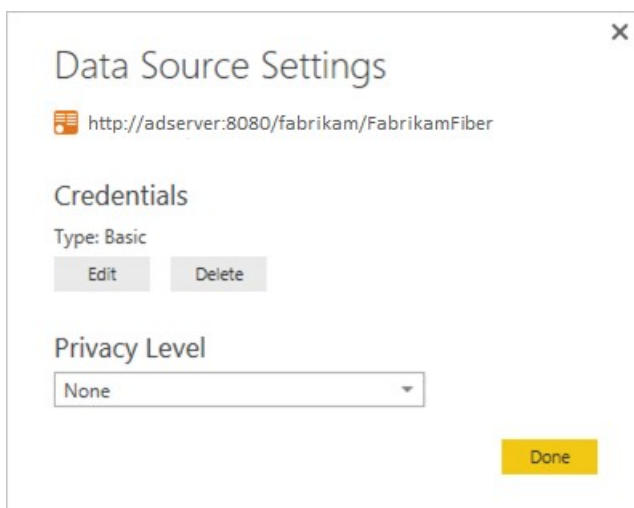
1. Open **Excel** and click the **Data** tab.
2. Click **New Query > Data Source Settings...**



3. Select the correct URL to the OData Feed and click **Edit**.



4. In the next **Data Source Settings** dialog, click the Edit button under the Credentials setting.



5. Edit the credentials as noted above, click **Save**, then **Done**, then **Close**.

Publish to PowerBI.com

After you have created a model and loaded it with data you can [publish it to Power BI](#). When using Azure AD or Windows, make sure to select the **oAuth2** option.

Related articles

- [Authenticate your identity with personal access tokens](#)
- [Access data through Excel](#)
- [Access data through Power BI desktop](#)
- [Publish a Power BI Desktop file to PowerBI.com](#)