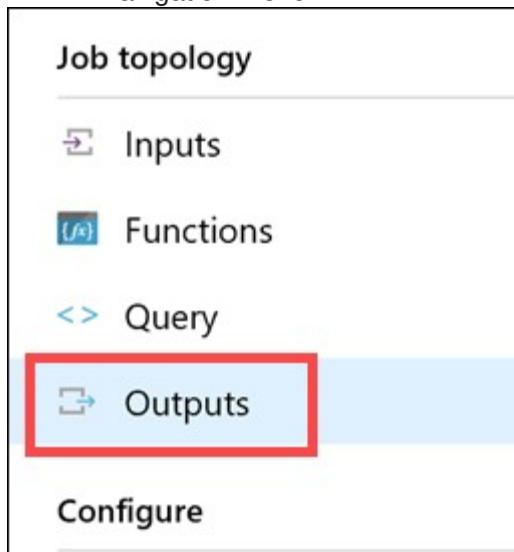# Create Power BI output

In this reading you can see the steps involved in creating Power BI output.

Note

You are not required to complete the processes, tasks, activities, or steps presented in this example. Your system set-up may differ from the system set-up in the demonstration in this reading. The various samples provided are for illustrative purposes only and it's likely that if you try this out you will encounter issues in your system.
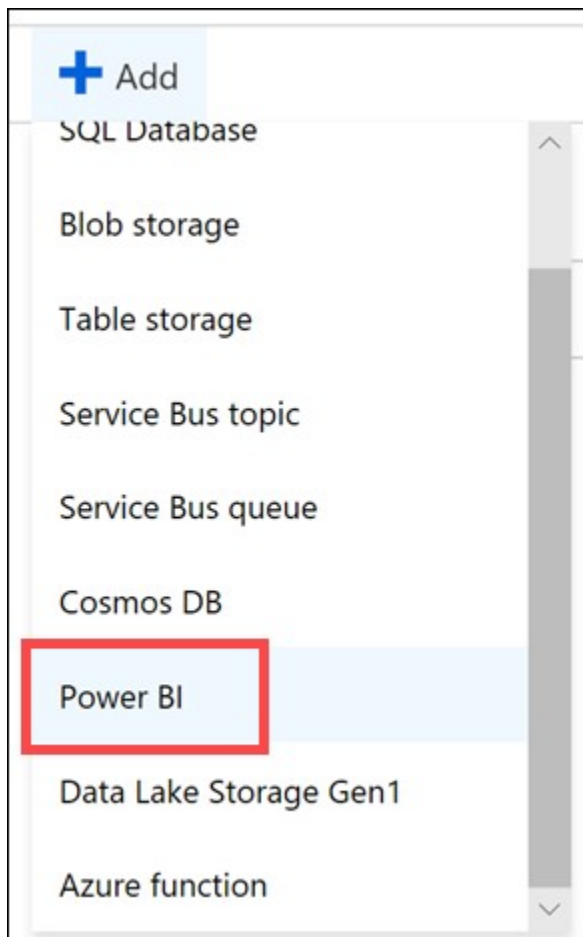
You configure an Azure Stream Analytics output for Power BI and a second output for Azure Synapse Analytics. Power BI provides a platform for visualizing and analyzing aggregated data in a near-real-time analytics pipeline built on Azure Event Hubs, Azure Stream Analytics, and Power BI.

1. From your Stream Analytics job's blade in the Azure portal, select **Outputs** in the left-hand navigation menu.
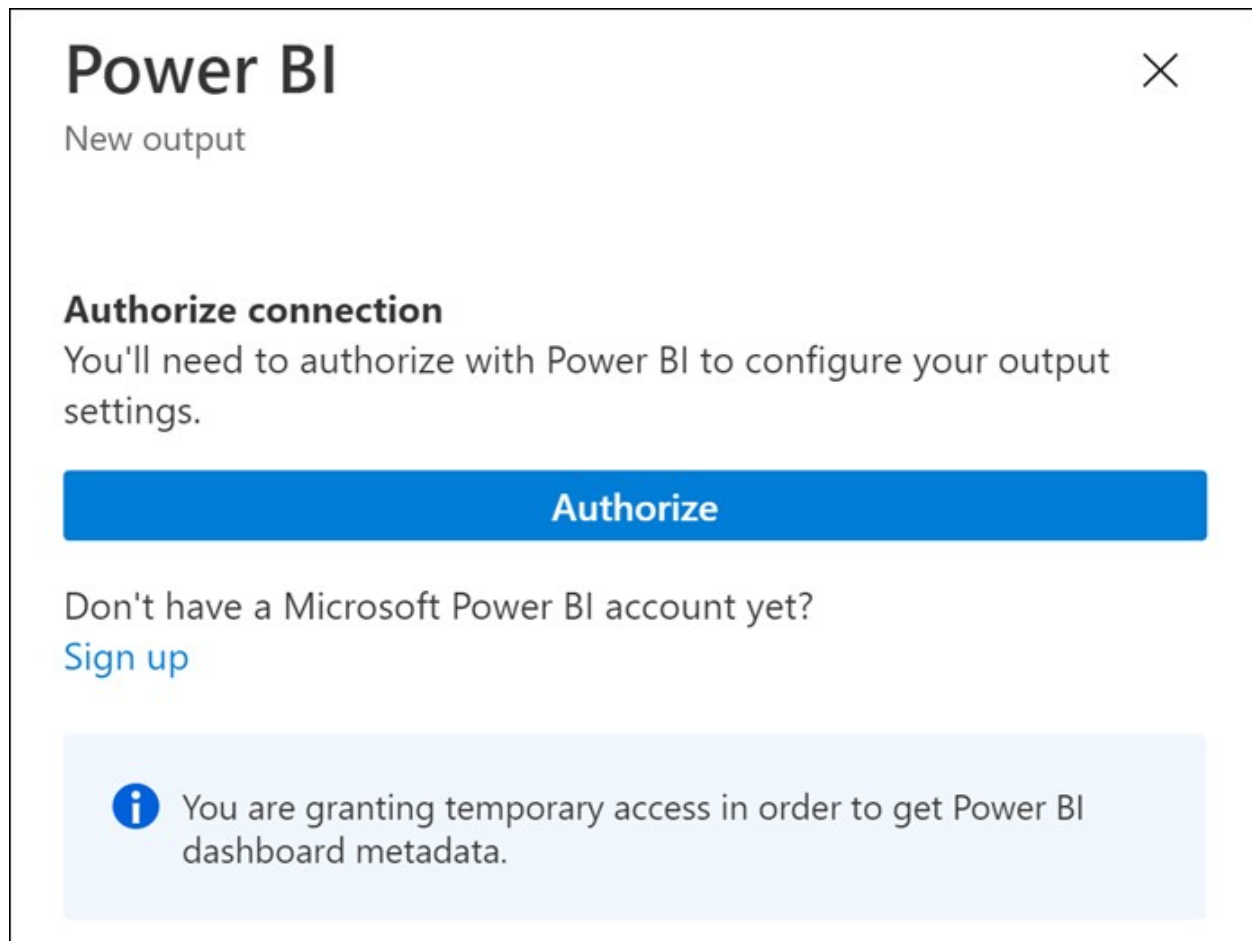
The Outputs link is selected in the left-hand menu.

2. On the Outputs blade, select **+ Add** in the top toolbar, then select **Power BI** to create a new Power BI output.

The Add button and Power BI menu item are highlighted.

3. In the **New Output** blade, select the **Authorize** button to authorize a connection from Stream Analytics to your Power BI account.

The Authorize button is highlighted in the New Output blade.

4. When prompted, sign in to your Power BI account, which is the same username and password you were provided with and used to log in to the Azure portal.

The Power BI sign-in form is displayed.

5. After successfully signing in to your Power BI account, the New Output blade will update to show you are currently authorized.

Power BI

New output

Currently authorized as ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓

Output alias *

[   ]

he New Output blade has been updated to show the user is authorized to Power BI.
6. In the **New Output** blade, configure the following:

- **Output alias:** Enter "powerBIAlerts".
- **Authentication mode:** Select "User token".
- **Group workspace:** Select "My Workspace" (if you do not see this option, select the "User token" authentication mode first).
- **Dataset name:** Enter "ContosoAutoVehicleAnomalies".
- **Table name:** Enter "Alerts".

Power BI

New output

Currently authorized as ▓▓▓▓▓▓▓▓▓▓▓▓▓▓

Output alias *

powerBIAlerts ✓

Group workspace

My workspace ⌄

Dataset name * ⓘ

ContosoAutoVehicleAnomalies ✓

Table name *

Alerts ✓

Authentication mode

User token ⌄

ⓘ Note: You are granting this output permanent access to your Power BI dashboard. Should you need to revoke this access in the future you can do one of the following:

1. Change the user account password.
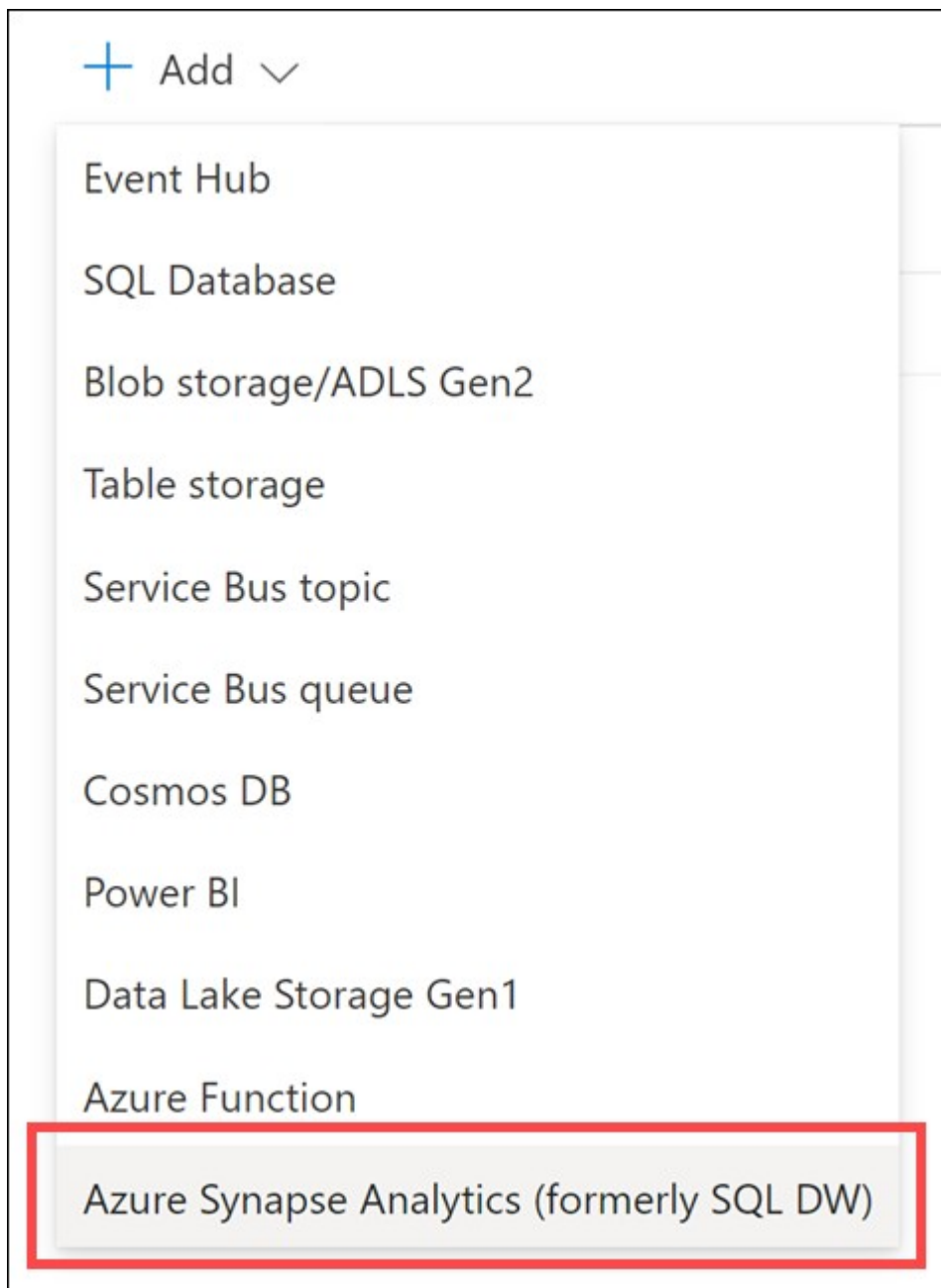2. Delete this output.
3. Delete this job.

The

New Output form is filled out with the previously mentioned settings entered into the appropriate fields.

7. Select **Save** on the bottom of the form when you have finished entering the values.

Create an Azure Synapse Analytics output

1. Select **+ Add** in the top toolbar a second time and select **Azure Synapse Analytics (formerly SQL DW)** to create a new Synapse Analytics output.

The Azure Synapse Analytics menu item is highlighted.

2. In the **New Output** blade, configure the following:

- **Output alias:** Enter "synapse".
- **Select Azure Synapse Analytics from your subscriptions:** Selected.
- **Subscription:** Select the subscription you are using for this lab.
- **Database:** Select "ContosoAuto". Make sure your correct Synapse workspace name appears under "Server name".
- **Table:** Enter `dbo.VehicleAverages`
- **Authentication mode:** Select "Connection string".
- **Username:** Enter `asa.sql.admin`
- **Password:** Enter the SQL admin password value you entered when deploying the lab environment.

Azure Synapse Analytics (for...   ✕

New output

Output alias *

> synapse

⭘ Provide Azure Synapse Analytics settings manually

◉ Select Azure Synapse Analytics from your subscriptions

Subscription

[_____ ⌄]

Database

[ContosoAuto ⌄]

Server name

asaworkspacede44

Table *

[dbo.VehicleAverages ✓]

Authentication mode

[Connection string ⌄]

Username *

[asa.sql.admin ✓]

Password *

[••••••••••••••]

The New

Output form filled out with the previously mentioned settings entered into the appropriate fields.

3. Select **Save** on the bottom of the form when you have finished entering the values.