

Quick Links



[Online Demo](#)



[Download](#)



[FAQ](#)



[Latest Docs](#)



[Ask a
Question](#)



[Report a Bug](#)



[Screenshots](#)

This page in other versions: [Latest \(4.19\)](#) | [4.18](#) | [4.17](#) | [3.6](#) | [2.1](#) | [1.6](#) | [Development](#)

[pgAdmin 4 4.19 documentation](#) » [Managing Database Objects](#) » [previous](#) | [next](#) | [index](#)

Warning: This documentation is for a pre-release version of pgAdmin 4

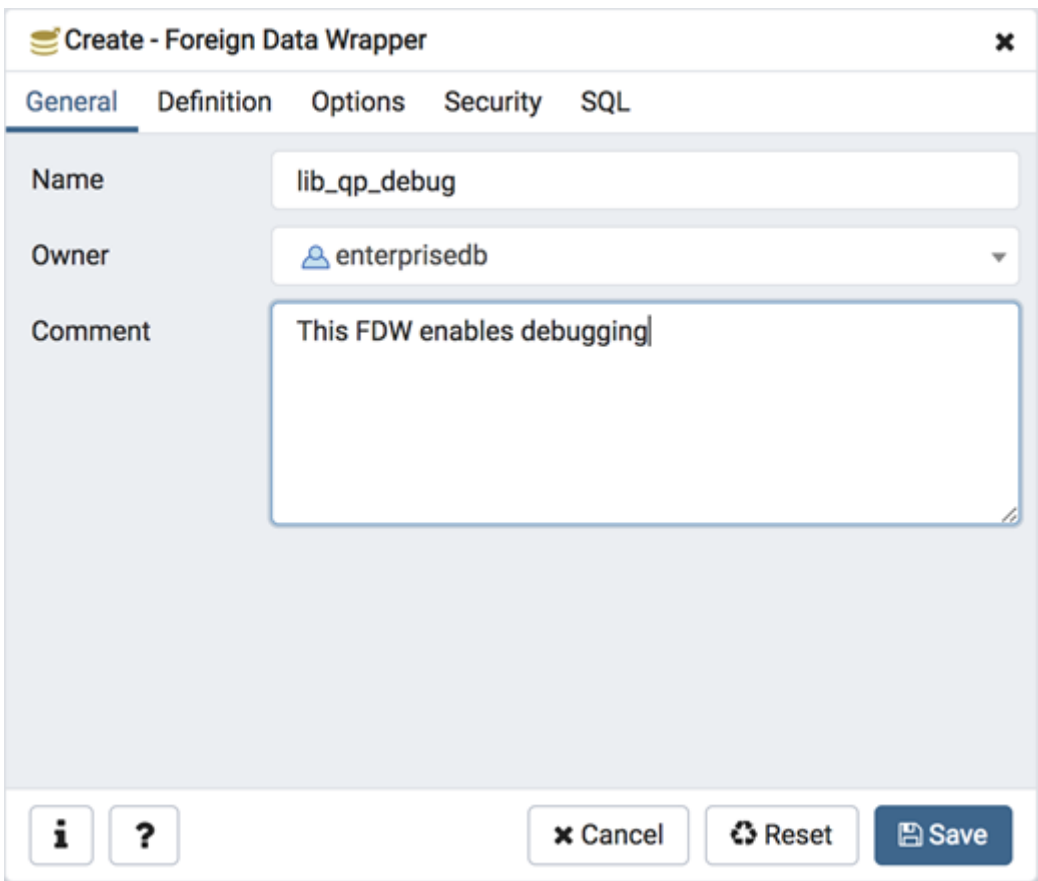
Contents

- [Foreign Data Wrapper Dialog](#)
 - [Example](#)
- [Getting Started](#)
- [Connecting To A Server](#)
- [Managing Cluster Objects](#)
- [Managing Database Objects](#)
 - [Cast Dialog](#)
 - [Collation Dialog](#)
 - [Domain Dialog](#)
 - [Domain Constraints Dialog](#)
 - [Event Trigger Dialog](#)
 - [Extension Dialog](#)
 - [Foreign Data Wrapper Dialog](#)
 - [Foreign Server Dialog](#)
 - [Foreign Table Dialog](#)
 - [FTS Configuration Dialog](#)
 - [FTS Dictionary Dialog](#)
 - [FTS Parser Dialog](#)
 - [FTS Template Dialog](#)
 - [Function Dialog](#)
 - [Language Dialog](#)
 - [Materialized View Dialog](#)
 - [Package Dialog](#)
 - [Procedure Dialog](#)
 - [Schema Dialog](#)
 - [Sequence Dialog](#)
 - [Synonym Dialog](#)
 - [Trigger Function Dialog](#)
 - [Type Dialog](#)
 - [User Mapping Dialog](#)
 - [View Dialog](#)
- [Creating or Modifying a Table](#)
- [Management Basics](#)
- [Backup and Restore](#)
- [Developer Tools](#)
- [pgAgent](#)
- [pgAdmin Project Contributions](#)
- [Release Notes](#)
- [Licence](#)

Use the *Foreign Data Wrapper* dialog to create or modify a foreign data wrapper. A foreign data wrapper is an adapter between a Postgres database and data stored on another data source.

You must be a superuser to create a foreign data wrapper.

The *Foreign Data Wrapper* dialog organizes the development of a foreign data wrapper through the following dialog tabs: *General*, *Definition*, *Options*, and *Security*. The *SQL* tab displays the SQL code generated by dialog selections.

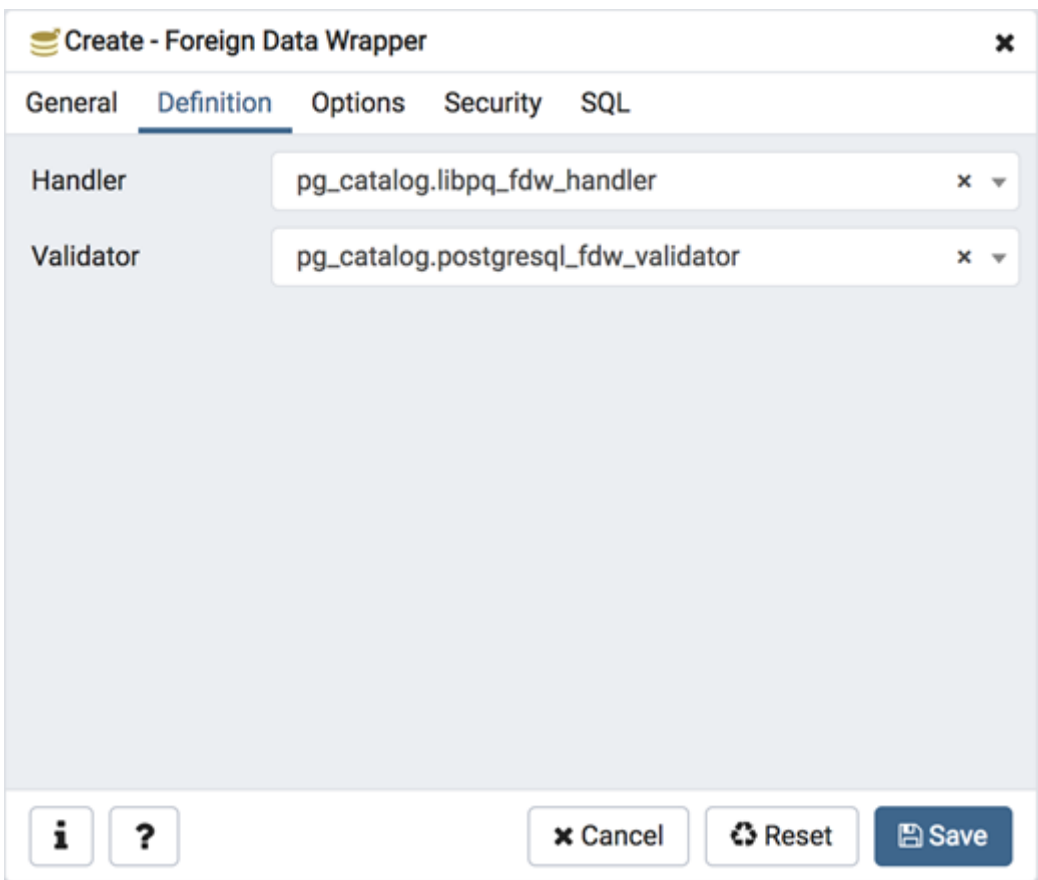


The screenshot shows the 'Create - Foreign Data Wrapper' dialog box with the 'General' tab selected. The dialog has five tabs: 'General', 'Definition', 'Options', 'Security', and 'SQL'. The 'General' tab contains three fields: 'Name' with the value 'lib_qp_debug', 'Owner' with a dropdown menu showing 'enterprisedb', and 'Comment' with a text area containing 'This FDW enables debugging'. At the bottom, there are buttons for 'Cancel', 'Reset', and 'Save', along with information and help icons.

Use the fields in the *General* tab to identify the foreign data wrapper:

- Use the *Name* field to add a descriptive name for the foreign data wrapper. A foreign data wrapper name must be unique within the database. The name will be displayed in the *pgAdmin* tree control.
- Use the drop-down listbox next to *Owner* to select the name of the role that will own the foreign data wrapper.
- Store notes about the foreign data wrapper in the *Comment* field.

Click the *Definition* tab to continue.



The screenshot shows the 'Create - Foreign Data Wrapper' dialog box with the 'Definition' tab selected. The dialog has five tabs: 'General', 'Definition', 'Options', 'Security', and 'SQL'. The 'Definition' tab contains two fields: 'Handler' with a dropdown menu showing 'pg_catalog.libpq_fdw_handler' and 'Validator' with a dropdown menu showing 'pg_catalog.postgresql_fdw_validator'. At the bottom, there are buttons for 'Cancel', 'Reset', and 'Save', along with information and help icons.

Use the fields in the *Definition* tab to set parameters:

- Select the name of the handler function from the drop-down listbox in the *Handler* field. This is the name of an existing function that will be called to retrieve the execution functions for foreign tables.
- Select the name of the validator function from the drop-down listbox in the *Validator* field. This is the name of an existing function that will be called to check the generic options given to the foreign data wrapper, as well as options for foreign servers, user mappings and foreign tables using the foreign data wrapper.

Click the *Options* tab to continue.

The screenshot shows a dialog box titled "Create - Foreign Data Wrapper" with a close button (X) in the top right corner. Below the title bar are five tabs: "General", "Definition", "Options" (which is selected and highlighted with a blue underline), "Security", and "SQL". The "Options" tab contains a table with two columns: "Option" and "Value". Above the table is a header row with the same column names. To the right of the table is a plus sign (+) button. At the bottom of the dialog box are four buttons: an information icon (i), a question mark icon (?), a "Cancel" button with an X icon, a "Reset" button with a circular arrow icon, and a "Save" button with a floppy disk icon.

Use the fields in the *Options* tab to specify options:

- Click the the *Add* icon (+) button to add an option/value pair for the foreign data wrapper. Supported option/value pairs will be specific to the selected foreign data wrapper.
- Specify the option name in the *Option* field and provide a corresponding value in the *Value* field.

Click the *Add* icon (+) to specify each additional pair; to discard an option, click the trash icon to the left of the row and confirm deletion in the *Delete Row* popup.

Click the *Security* tab to continue.

Create - Foreign Data Wrapper

General Definition Options **Security** SQL

Privileges +

Grantee	Privileges	Grantor
---------	------------	---------

Use the *Security* tab to assign security privileges. Click the *Add* icon (+) to assign a set of privileges.

- Select the name of the role from the drop-down listbox in the *Grantee* field.
- Click inside the *Privileges* field. Check the boxes to the left of one or more privileges to grant the selected privileges to the specified user.
- The current user, who is the default grantor for granting the privilege, is displayed in the *Grantor* field.

Click add to assign additional privileges; to discard a privilege, click the trash icon to the left of the row and confirm deletion in the *Delete Row* popup.

Click the *SQL* tab to continue.

Your entries in the *Foreign Data Wrapper* dialog generate a SQL command (see an example below). Use the *SQL* tab for review; revisit or switch tabs to make any changes to the SQL command.

Example ¶

The following is an example of the sql command generated by user selections in the *Foreign Data Wrapper* dialog:

```
1 CREATE FOREIGN DATA WRAPPER lib_qp_debug
2     VALIDATOR pg_catalog.postgresql_fdw_validator
3     HANDLER pg_catalog.libpq_fdw_handler;
4
5 ALTER FOREIGN DATA WRAPPER lib_qp_debug
6     OWNER TO enterprisedb;
7
8 COMMENT ON FOREIGN DATA WRAPPER lib_qp_debug
9     IS 'This FDW enables debugging';
```

The example creates a foreign data wrapper named *libpq_debug* that uses pre-existing validator and handler functions, *dblink_fdw_validator* and *libpq_fdw_handler*. Selections on the *Options* tab set *debug* equal to *true*. The foreign data wrapper is owned by *postgres*.

- Click the *Help* button (?) to access online help.
- Click the *Save* button to save work.
- Click the *Cancel* button to exit without saving work.
- Click the *Reset* button to restore configuration parameters.