

PHP PDO Snowflake Installation

Introduction

This document aims to provide a walkthrough of how the generated PHP PDO Snowflake driver can be installed, and used on the Linux Environment running on PHP 8.0.30.

PHP PDO Driver

Building (Already built and provided)

The PHP PDO driver for Snowflake has already been generated and shared (**`pdo_snowflake.so`**). The driver has been built for PHP version 8.0.30, running on a Linux environment (as per the received information). Generation of the PDO driver for Snowflake will not be covered in this document. If you need to generate it for another PHP version, please refer to the documentation of the official repository provided for generating the PDO driver [here](#).

Installation

To install the PHP PDO driver, perform the following steps:

1. Copy the generated PDO driver to the extensions directory

Copy the provided **`pdo_snowflake.so`** file into the PHP extensions directory (the same directory that contains the `pdo.so` file).

To find the PHP extension directory, run:

```
/usr/bin/php -i | grep '^extension_dir'
```

Note: `/usr/bin/php` refers to the location of your php binary

2. Copy the provided **`cacert.pem`** file to the php configuration directory

Copy the provided **`cacert.pem`** file to the directory containing the PHP configuration files (e.g. `/etc/php/8.0/apache2/conf.d` for PHP version 8.0 on Ubuntu).

3. Create Config file for PDO Snowflake

In the same directory that contains the PHP configuration files (the directory traced in step 2 above), create a config file named **`20-pdo_snowflake.ini`** that contains the following settings:

```
extension=pdo_snowflake.so
```

`pdo_snowflake.cacert=<path to PHP config directory>/cacert.pem`

Note: The **`<path to PHP config directory>`** is the path to the directory where you copied the cacert.pem file in the previous step.

4. Restart your web server

If you are using PHP with an application server or web server (e.g. Apache or nginx), restart the server.

Using the Driver

This section explains how to use the driver in a PHP application/page.

Connecting to the Snowflake Database

To connect to the Snowflake database, create a new PDO object.. Specify the data source name (dsn) parameter as shown below:

```
$dbh = new PDO("snowflake:account=<account_name>", "<user>", "<password>");
```

where:

- **`<account_name>`** is your Snowflake account name.
- **`<user>`** is the login name of the user for the connection.
- **`<password>`** is the password for the specified user.

For e.g.

```
$dbh = new PDO("snowflake:account=hndwrqr-sqb80692", "hariszafar15985",  
"Hariszafar@786");
```

Note:

For accounts in regions outside of US-West, use region parameter to specify the region or append the region to the account parameter.

```
$dbh = new PDO("snowflake:account=testaccount.us-east-1", "user", "password");  
$dbh = new PDO("snowflake:account=testaccount;region=us-east-1", "user", "password");
```

For reference to PDO statements syntax, please refer to the official PHP PDO documentation [here](#).