



# Step-by-Step Guide to Install ora2pg on Linux & Windows.

*Prepared by*

**Data SQL Ninja Engineering Team ([datasqlninja@microsoft.com](mailto:datasqlninja@microsoft.com))**

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This document is intended to be used as a Quick Installation Guide to enable migration of schema & data from Oracle to Azure Database for PostgreSQL using ora2pg tool. More details about Ora2pg can be found at <http://ora2pg.darold.net/documentation.html>. This document has details of scripts that automate the installation of ora2pg tool using PowerShell for Windows and Bash for Linux Machines. This script was tested with Oracle 11.xx & 12.xx, download respective oracle client and client-sdk.

## Linux

**Pre-Requisites for Linux:** This script requires RedHat/Ubuntu 18+/Debian 10/Centos 7 or later

### Step 1

Download bash script [installora2pg.sh](#) from [Data SQL Ninja GitHub Repository](#)

### Step 2

Run the script downloaded in step 1 as sudo or root. Ensure active internet connection.

This script when run will run below steps:

- o yum update all and install necessary software using yum
- o Checks for libclntsh.so, if exists (from previously installed oracle client) continue to next step, else install instant client files (sdk and basic) from the same directory. If files don't exist, then you are prompted to download from Oracle.com. Ensure to place both (Oracle sdk and client) the zip files in same folder as installora2pg.sh script.
- o Download and install the latest version of dbd oracle from <https://www.cpan.org/modules/by-module/DBD>
- o Checks for pg\_config (PostgreSQL client/server is available), and install dbd Pg from the internet, otherwise ora2pg is installed without PostgreSQL library

```
Postgres client or server is not installed...
if you want to install postgresql library for ora2pg then press ctrl+C to cancel this installation
after that, Install postgresql client then re-run this installation!
However, the ora2pg will be installed without postgresql library
Sleeping for 5 seconds waiting for you to decide...
```

- o Clone and install latest version of ora2pg from <https://github.com/darold/ora2pg.git>. Test ora2pg installation without ora2pg.conf file. This script file was also tested on docker base centos 7.

# Windows

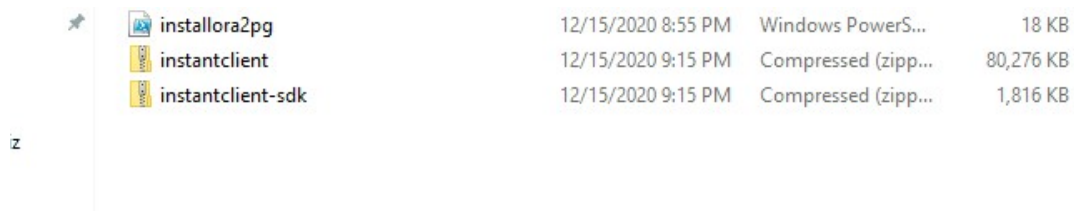
Pre-Requisites for Windows: This script was tested on windows 10 64bit.

## Step 1

Download PowerShell script [installora2pg.ps1](#) from [Data SQL Ninja GitHub Repository](#)

## Step 2

Manual step: Download Oracle client and Oracle client sdk from Oracle.com and rename the file to instantclient.zip and instantclient-sdk. The script expects the file name to be "instantclient" and "instantclient-sdk".



installora2pg	12/15/2020 8:55 PM	Windows PowerS...	18 KB
instantclient	12/15/2020 9:15 PM	Compressed (zipp...	80,276 KB
instantclient-sdk	12/15/2020 9:15 PM	Compressed (zipp...	1,816 KB

Run the PowerShell script downloaded in step 1 with admin privilege.

This script does the following:

- Checks internet connection, exit out if no internet connection.
- Automatically download & install strawberry perl from <http://strawberryperl.com/> and delete installer file after installation.

```
Administrator: Windows PowerShell
Browsing http://strawberryperl.com/
Getting version of strawberry-perl...
Latest version is 5.30.0.1
Will be downloading perl from http://strawberryperl.com/download/5.30.0.1/strawberry-perl-5.30.0.1-64bit.msi
Downloading perl installer from http://strawberryperl.com/download/5.30.0.1/strawberry-perl-5.30.0.1-64bit.msi ..
Downloaded 107064681 bytes
Installing perl ...
msiexec /i C:\Users\... \AppData\Local\Temp\perl.msi /quiet /qn
Verifying perl install ...
perl --version

This is perl 5, version 30, subversion 0 (v5.30.0) built for MSWin32-x64-multi-thread
Copyright 1987-2019, Larry Wall

Perl may be copied only under the terms of either the Artistic License or the
GNU General Public License, which may be found in the Perl 5 source kit.

Complete documentation for Perl, including FAQ lists, should be found on
this system using "man perl" or "perldoc perl". If you have access to the
Internet, point your browser at http://www.perl.org/, the Perl Home Page.

Removing perl installer ...
perl install complete.
```

- Automatically check for oracle client. If not found then uses the installclient.zip & instantclient-sdk.zip files to install client and client-sdk.

```
Searching oci.dll from Directory C:\instantclient_12_2...
Found OCI.dll in c:\instantclient_12_2\oci.dll
```

```
Searching oci.dll from Directory C:\instantclient_12_2...
Oracle client and SDK are required...
Please download base Instantclient from:
https://download.oracle.com/otn/nt/instantclient/122010/instantclient-basic-windows.x64-12.2.0.1.0.zip
and
https://download.oracle.com/otn/nt/instantclient/122010/instantclient-sdk-windows.x64-12.2.0.1.0.zip
Please download the 2 files and extract both to C:\instantclient_12_2
or put those 2 files in zip format at the same location of this script.
.....Press any key to exit.....
```

- Download & install portable github from <https://github.com/git-for-windows/git/releases/download/v2.23.0.windows.1/PortableGit-2.23.0-64-bit.7z.exe> to location c:\github.
- Install 2 perllib DBD::Oracle and DBD::Pg using cpan
- Clone latest ora2pg from <https://github.com/darold/ora2pg.git> and Install ora2pg. In case ora2pg already exists, you will see below error message.

```
Checking whether ora2pg has been installed...
ora2pg is currently existing.. in order to upgrade it, please delete ora2pg.bat under strawberryperl bin directory..
```

Note: Once the installation is complete, ensure to add c:\instantclient to PATH in system variables.

## References

<http://ora2pg.darold.net/documentation.html>

<http://strawberryperl.com/>

<https://www.oracle.com/technetwork/database/enterprise-edition/downloads/index.html>

<https://www.cpan.org/modules/by-module/DBD>

[Data SQL Ninja GitHub Repository](#)

### **Feedback and suggestions**

If you have feedback or suggestions for improving this data migration asset, please contact the Data SQL Ninja Engineering Team ([datasqlninja@microsoft.com](mailto:datasqlninja@microsoft.com)). Thanks for your support!

**Note:** For additional information about migrating various source databases to Azure, see the [Azure Database Migration Guide](#).