AC Lab System

PostgreSQL Migration Guide – Part III

Node Solution

SQL Installation and Configuration

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In this guide, we intend to cover the full details of PostgreSQL installation and configuration to work with ACLS. The guide is written mainly for IT administrator, or the party which is responsible to install and commission hosting servers for ACLS.

1. Node Option

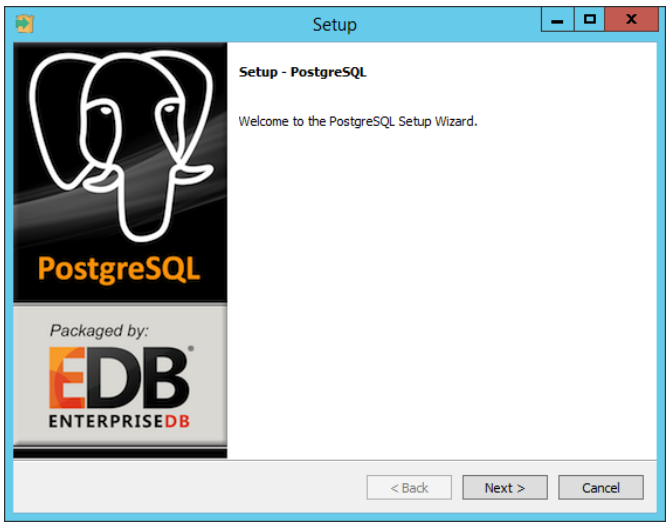
PostgreSQL can be installed to the same server or VM with the ACLS instance for the node option.

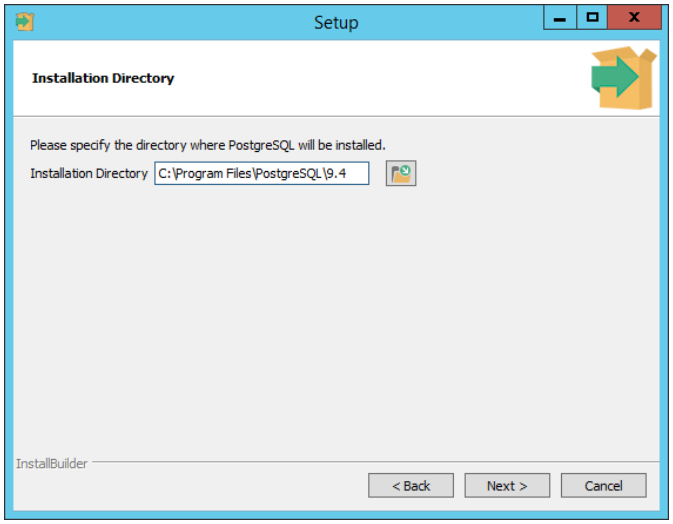
❖ Install PostgreSQL

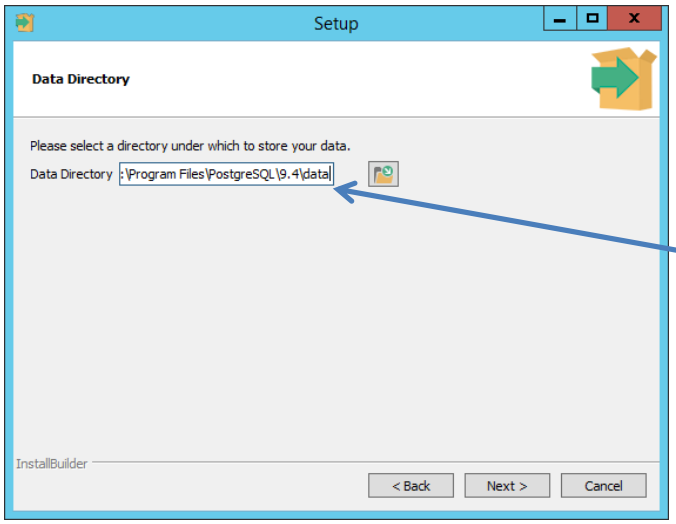
You can download PostgreSQL the packages at ACLS site http://www.analytical.unsw.edu.au/for-users/ac-lab-system.

Double click on ***postgresql-9.4.4-3-windows*** to start installation.

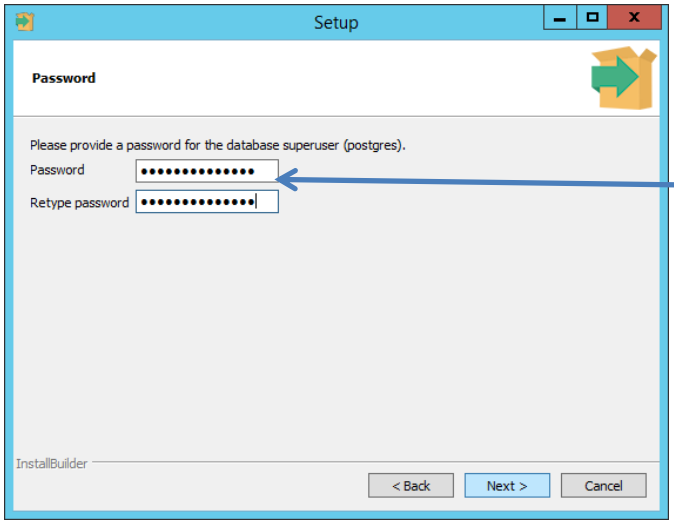
The following diagrams show every step for the PostgreSQL installation.





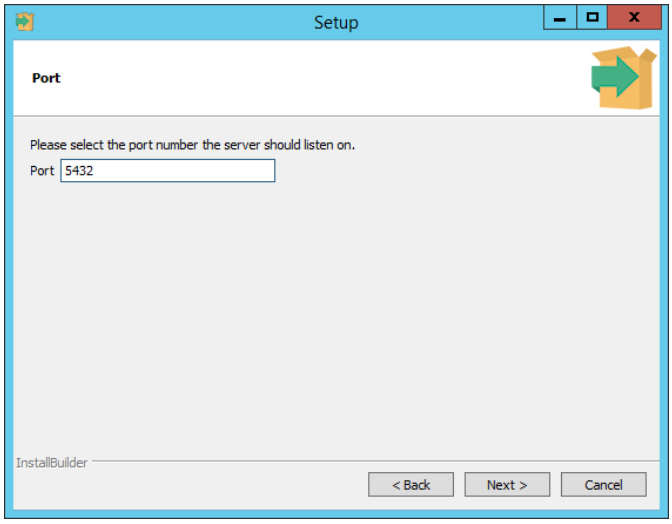


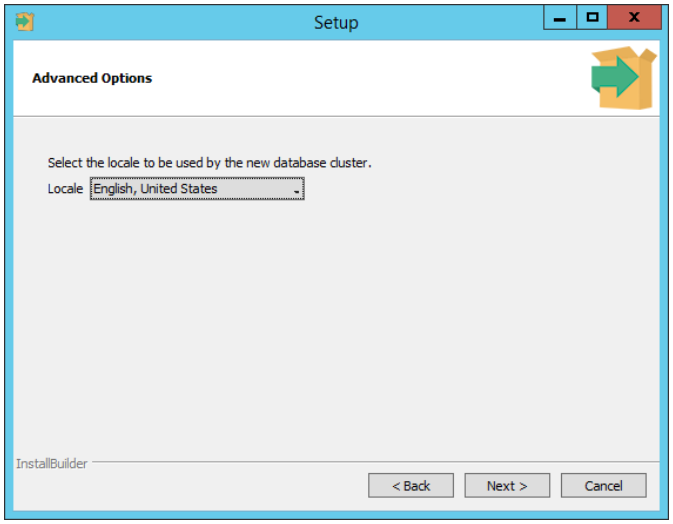
You can choose the other drive to keep SQL bases. For example, d:\aclssql\data

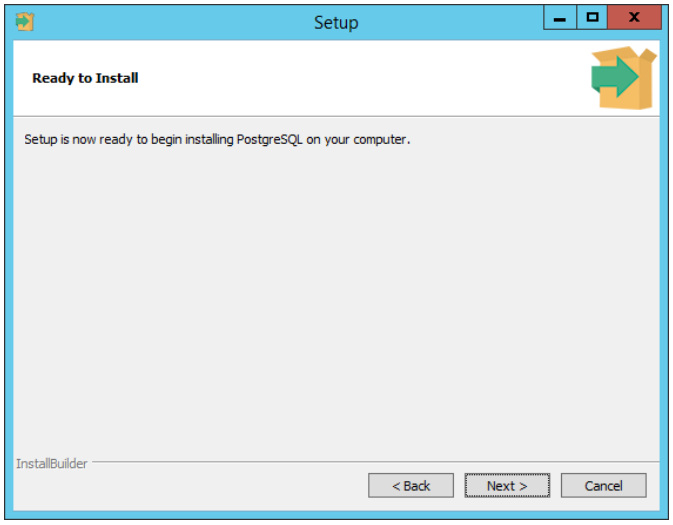


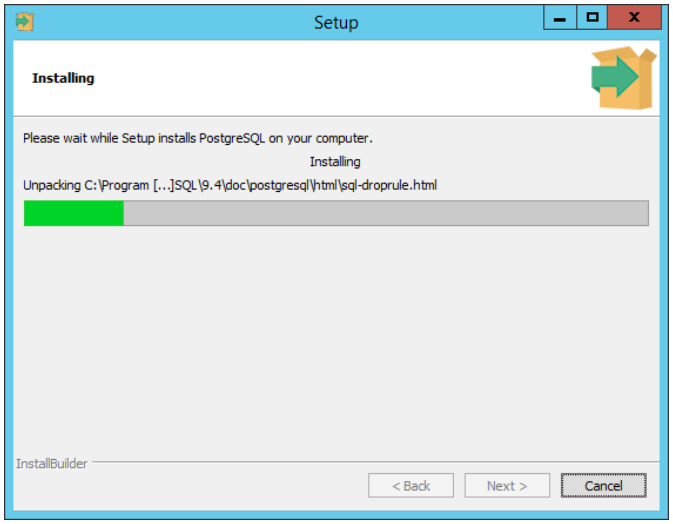
Please go to GUID site to create a special password for SQL access. GUID calculator can be found at https://www.guidgenerator.com/online-guid-generator.aspx

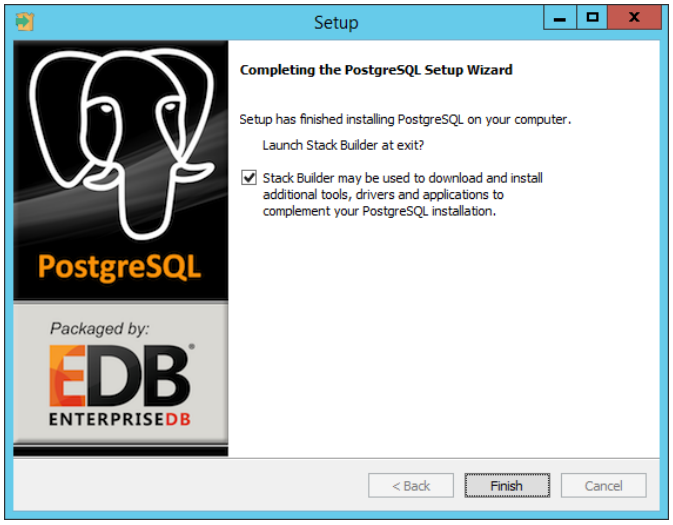
Please keep SQL password securely and provide it to us build ACLS app for your ACLS.




Setup
Advanced Options
Select the locale to be used by the new database cluster.
Locale English, United States
InstallBuilder
< Back
Next >
Cancel


Setup
Ready to Install
Setup is now ready to begin installing PostgreSQL on your computer.
InstallBuilder
< Back
Next >
Cancel





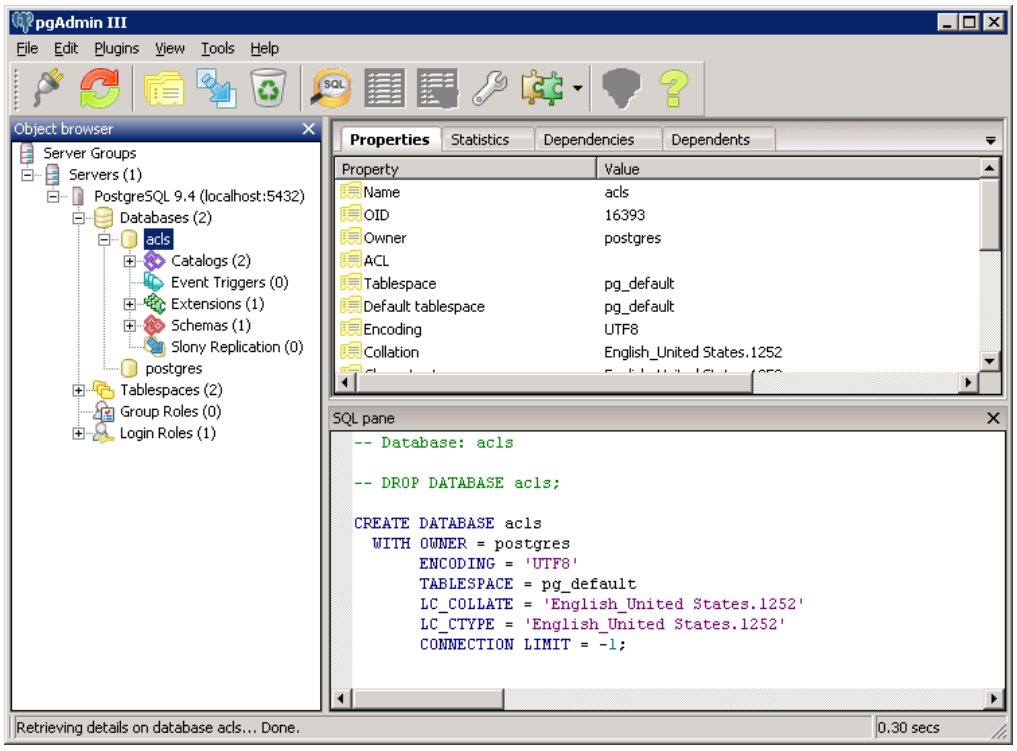
Uncheck 'Stock Builder …', and click on 'Finish' to end the installation.

PostgreSQL installation is completed.

❖ **ACLS Default Database Configuration**

PostgreSQL package comes with the graphic administrator console, pgAdmin III

Run pgAmin III and connnect to SQL with the correct password, then create a default database, using name 'acls'



Configuration of PostgreSQL default database is completed

❖ **Navicat for PostgreSQL**

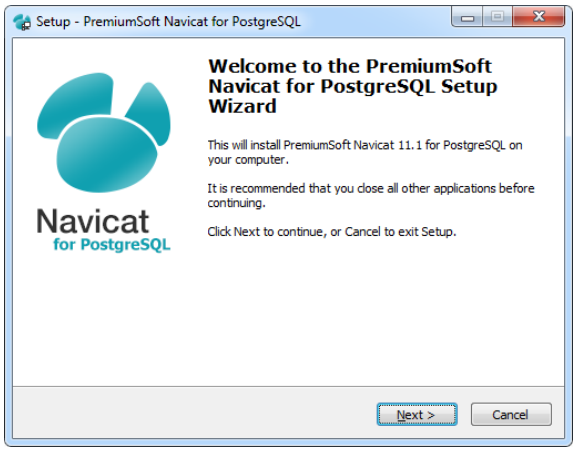
Navicat for PostgreSQL is an easy-to-use graphical tool for PostgreSQL database administration. Create and execute queries and functions with a powerful SQL Editor, and manage your data with versatile data editing tools. Navicat for PostgreSQL connects you to any local/remote PostgreSQL database servers from version 7.3 or above, and supports all PostgreSQL database objects.

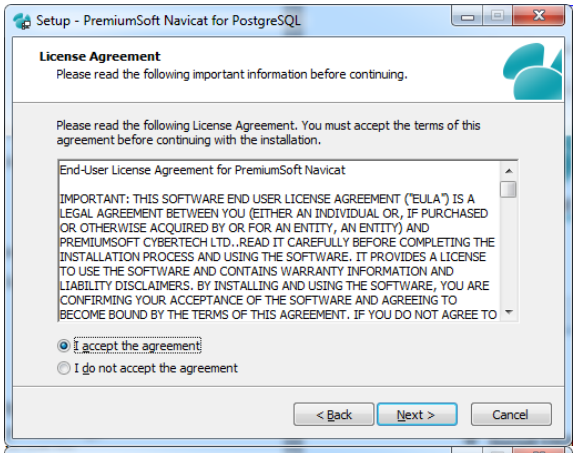
From writing simple SQL queries to developing complex databases, Navicat for PostgreSQL is designed with a wide range of users in mind, from those new to PostgreSQL to seasoned developers. Major features include the SQL Builder/Editor, a Data Modeling Tool, Data Transfer, Import/Export, Data/Structure Synchronization, Report, and much more.

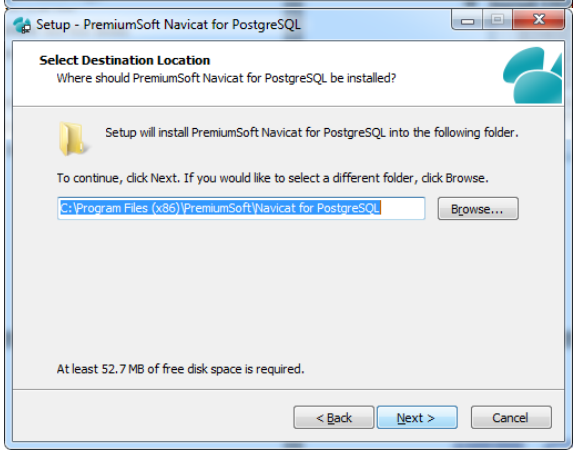
It is highly recommended to install Navacat for PostgreSQL app to view the data and backup. If you are a SQL DBA, you can also use Navivat for reindexing and data repair.

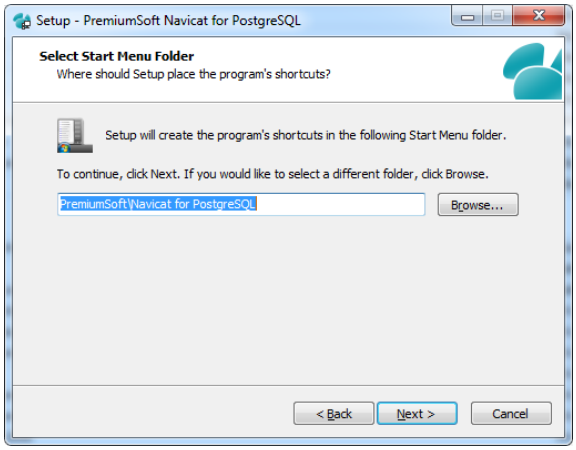
You can download and purchase Navicat for POstgreSQL at http://www.navicat.com/products/navicat-for-postgresql.

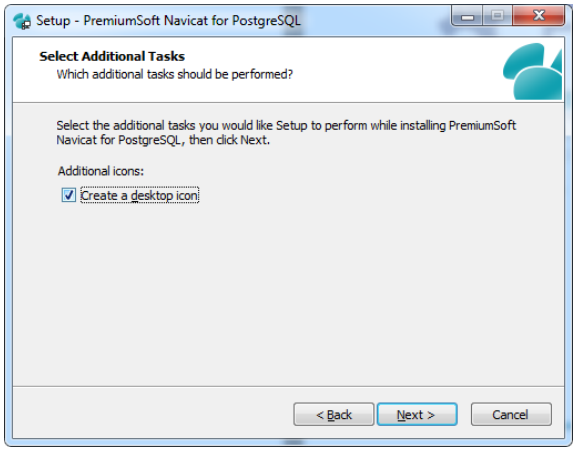
- **Installation of Navicat is straightforward:**

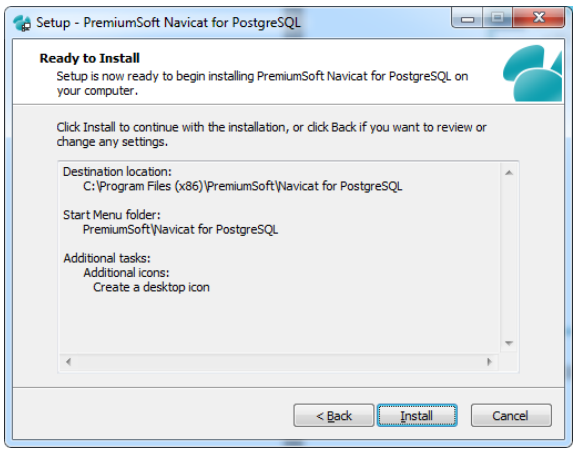


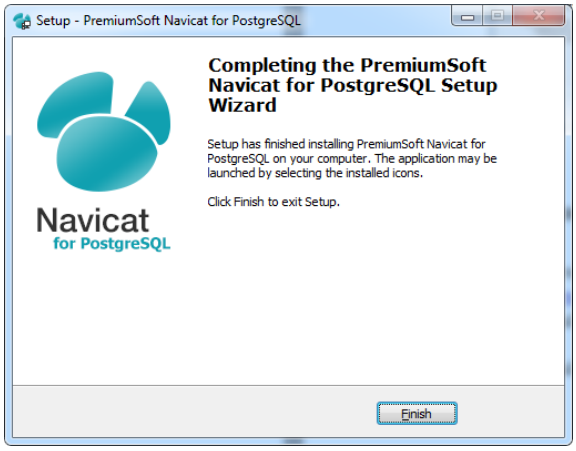

Setup - PremiumSoft Navicat for PostgreSQL
License Agreement
Please read the following important information before continuing.
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.
End-User License Agreement for PremiumSoft Navicat
IMPORTANT: THIS SOFTWARE END USER LICENSE AGREEMENT ("EULA") IS A LEGAL AGREEMENT BETWEEN YOU (EITHER AN INDIVIDUAL OR, IF PURCHASED OR OTHERWISE ACQUIRED BY OR FOR AN ENTITY, AN ENTITY) AND PREMIUMSOFT CYBERTECH LTD..READ IT CAREFULLY BEFORE COMPLETING THE INSTALLATION PROCESS AND USING THE SOFTWARE. IT PROVIDES A LICENSE TO USE THE SOFTWARE AND CONTAINS WARRANTY INFORMATION AND LIABILITY DISCLAIMERS. BY INSTALLING AND USING THE SOFTWARE, YOU ARE CONFIRMING YOUR ACCEPTANCE OF THE SOFTWARE AND AGREEING TO BECOME BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO
I accept the agreement
I do not accept the agreement
< Back
Next >
Cancel


Setup - PremiumSoft Navicat for PostgreSQL
Select Destination Location
Where should PremiumSoft Navicat for PostgreSQL be installed?
Setup will install PremiumSoft Navicat for PostgreSQL into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files (x86)\PremiumSoft\Navicat for PostgreSQL
Browse...
At least 52.7 MB of free disk space is required.
< Back
Next >
Cancel


Setup - PremiumSoft Navicat for PostgreSQL
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
PremiumSoft\Navicat for PostgreSQL
Browse...
< Back
Next >
Cancel


Setup - PremiumSoft Navicat for PostgreSQL
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing PremiumSoft Navicat for PostgreSQL, then click Next.
Additional icons:
Create a desktop icon
< Back
Next >
Cancel

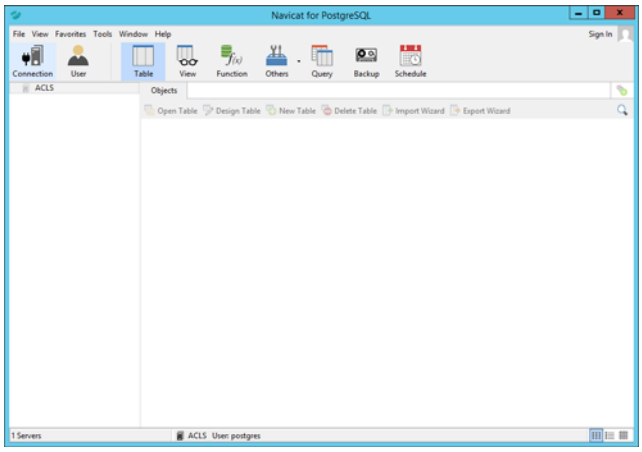

Setup - PremiumSoft Navicat for PostgreSQL
Ready to Install
Setup is now ready to begin installing PremiumSoft Navicat for PostgreSQL on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files (x86)\PremiumSoft\Navicat for PostgreSQL
Start Menu folder:
PremiumSoft\Navicat for PostgreSQL
Additional tasks:
Additional icons:
Create a desktop icon
< Back
Install
Cancel

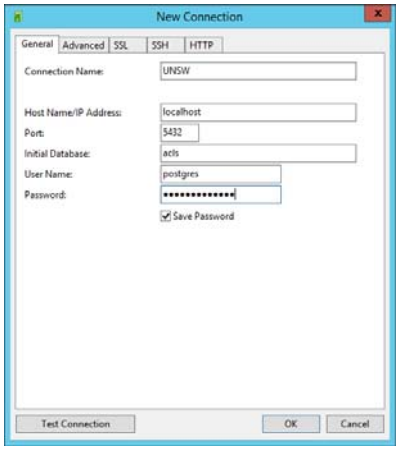

Setup - PremiumSoft Navicat for PostgreSQL
Navicat
for PostgreSQL
Completing the PremiumSoft Navicat for PostgreSQL Setup Wizard
Setup has finished installing PremiumSoft Navicat for PostgreSQL on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Finish

- **Connecting to SQL:**

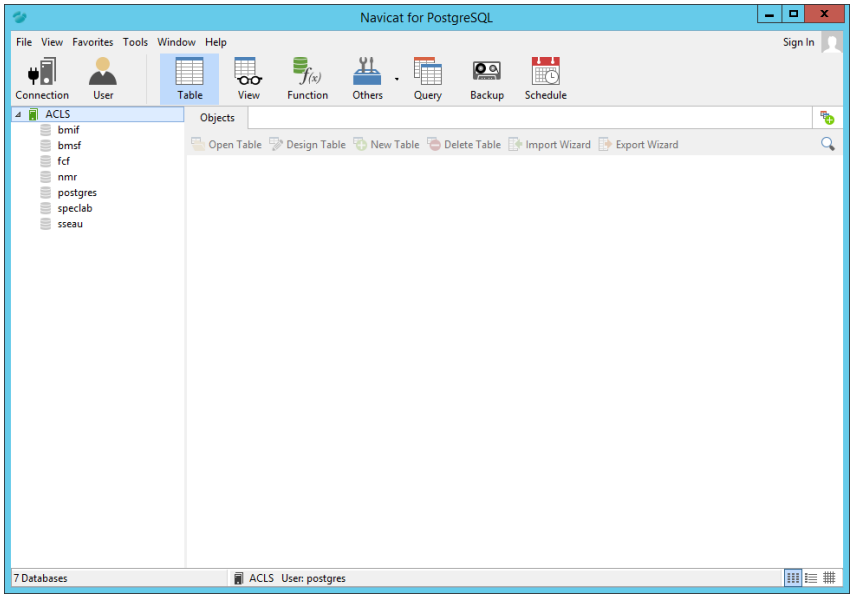
Navicat is a powerful SQL graphic tool to manage, maintain and backup SQL databases.

Click on 'Connect' to set up SQL connection.





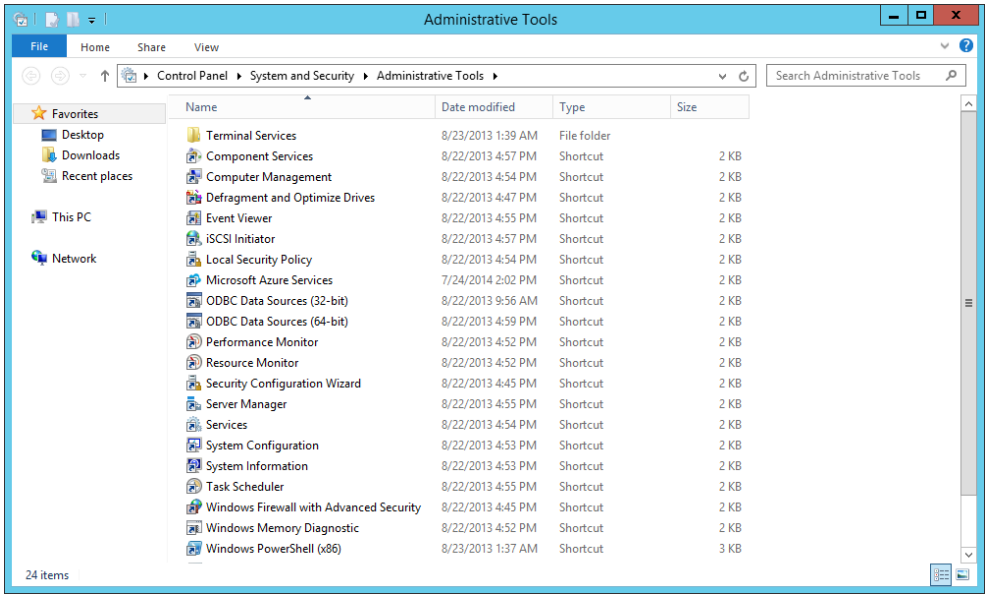
Once Test Connection works, click on 'OK' to save it. Here are the examples of multiple SQL databases running at UNSW.



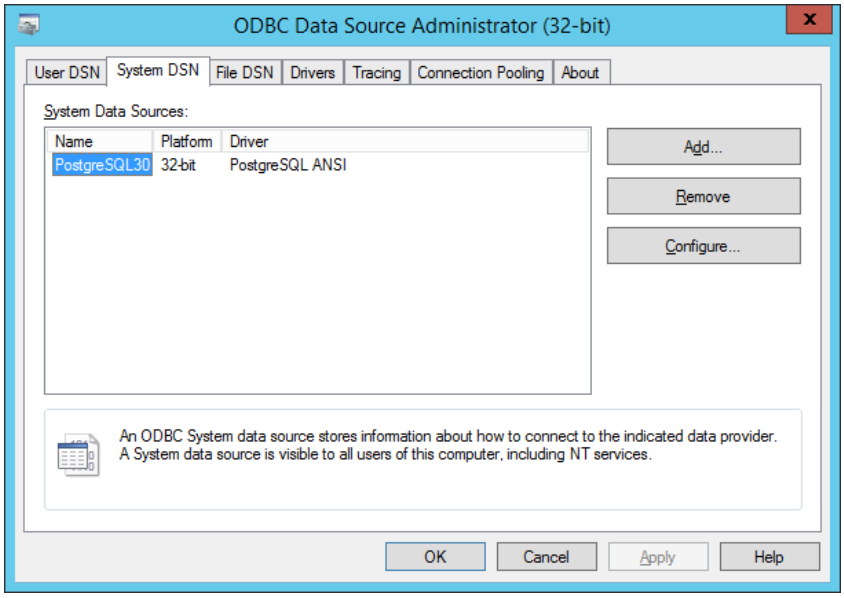
❖ **Install ODBC driver to ACLS instance server**

Please download the ACLS ODBC driver from ACLS site at http://www.analytical.unsw.edu.au/for-users/ac-lab-system. Double click on the driver installer psqlodbc to install the driver.

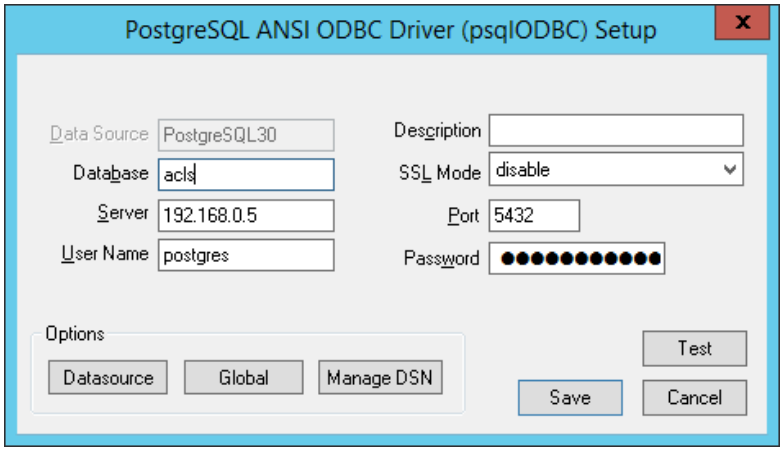
Upon installation, you need to go to Control Panel -> Administrative Tools.



Click on 'ODBC Data Source (32-bit) to open the page as shown below.



Go to System DSN to add PostgreSQL ODBC connection.



Please click on 'Test' to confirm if the conection works. If yes, click on save. If not, please contact us for assistance.

This is all for enterprise PostgreSQL installation and configuration. Please refer to ACLS installation guide to install ACLS and ACLS installer is provided in a separate mail.

❖ Support

Should you need any assistance, please contact us at dm.zheng@unsw.edu.au anytime.