

PGAdmin and PostgreSQL Installation Guide for Windows

Introduction

This guide provides detailed instructions for installing PGAdmin and PostgreSQL on a Windows operating system. PGAdmin is a widely used open-source administration and management tool for the PostgreSQL database.

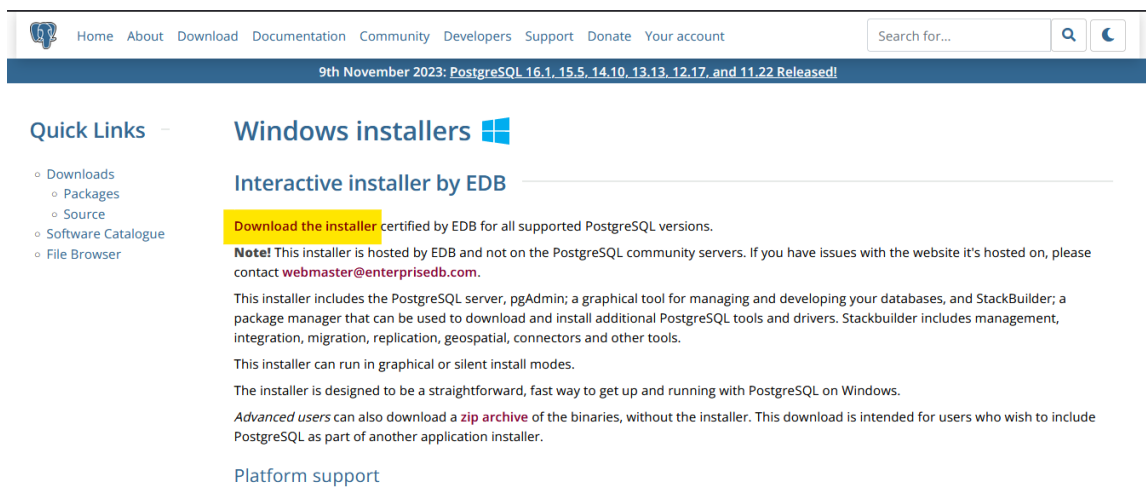
Prerequisites

Before starting the installation process, ensure that your system meets the following prerequisites:

1. Windows operating system (Windows 7 or later)
2. Adequate disk space for installation
3. Administrative privileges on the system

Step 1: Download PostgreSQL

1. Go to the official PostgreSQL download page: [PostgreSQL Downloads](#)



The screenshot shows the 'Windows installers' section of the PostgreSQL website. It features a navigation bar with links like Home, About, Download, Documentation, Community, Developers, Support, Donate, and Your account. A search bar is also present. Below the navigation bar, a banner indicates the release date: '9th November 2023: PostgreSQL 16.1, 15.5, 14.10, 13.13, 12.17, and 11.22 Released!'. The main content area is titled 'Windows installers' and includes a 'Quick Links' sidebar with links to Downloads, Packages, Source, Software Catalogue, and File Browser. The main text area is titled 'Interactive installer by EDB' and contains a 'Download the installer' button. Below the button, there is a note stating that the installer is hosted by EDB and not on the PostgreSQL community servers. It also mentions that the installer includes the PostgreSQL server, pgAdmin, and StackBuilder. The text further states that the installer can run in graphical or silent install modes and is designed to be a straightforward, fast way to get up and running with PostgreSQL on Windows. Finally, it mentions that advanced users can also download a zip archive of the binaries without the installer.

2. Select the version appropriate for your system architecture (32-bit or 64-bit).

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Download PostgreSQL

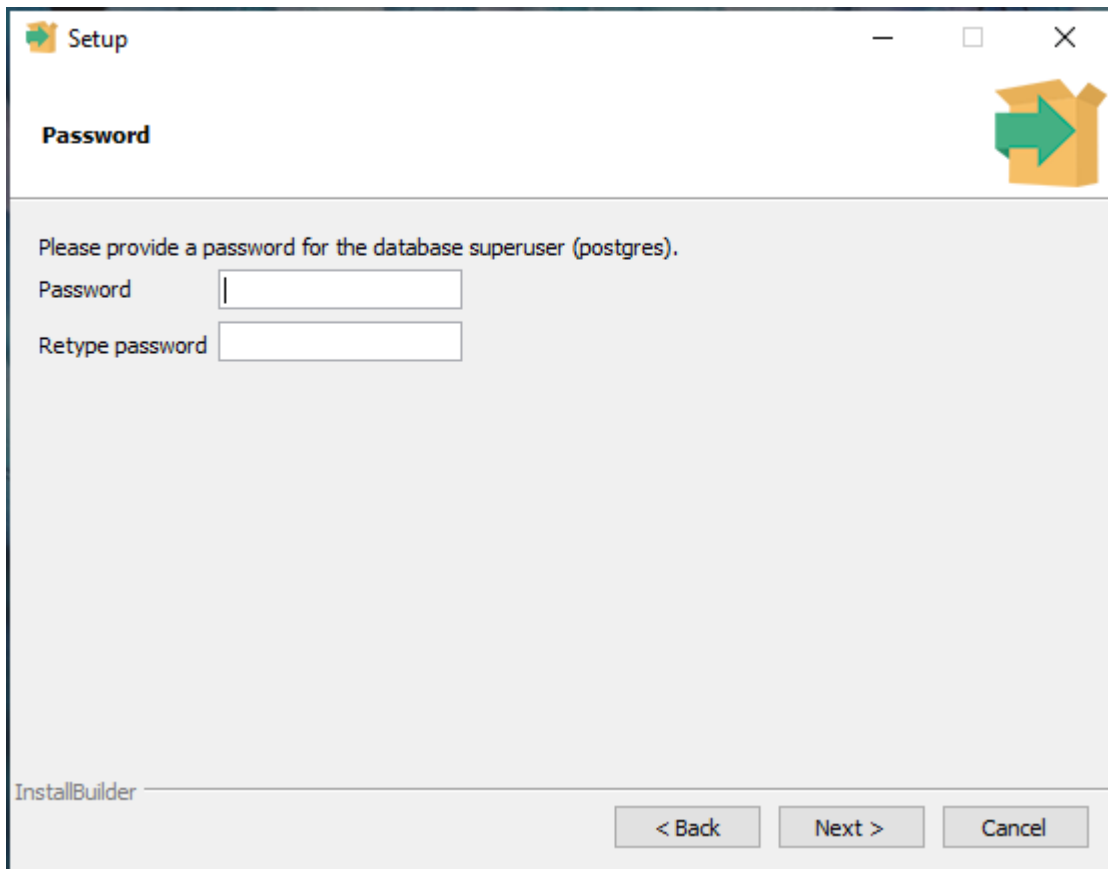
Open source PostgreSQL packages and installers from EDB

PostgreSQL Version	Linux x86-64	Linux x86-32	Mac OS X	Windows x86-64	Windows x86-32
16.1	postgresql.org	postgresql.org			Not supported
15.5	postgresql.org	postgresql.org			Not supported
14.10	postgresql.org	postgresql.org			Not supported

3. Click on the “Download” button to start the download.

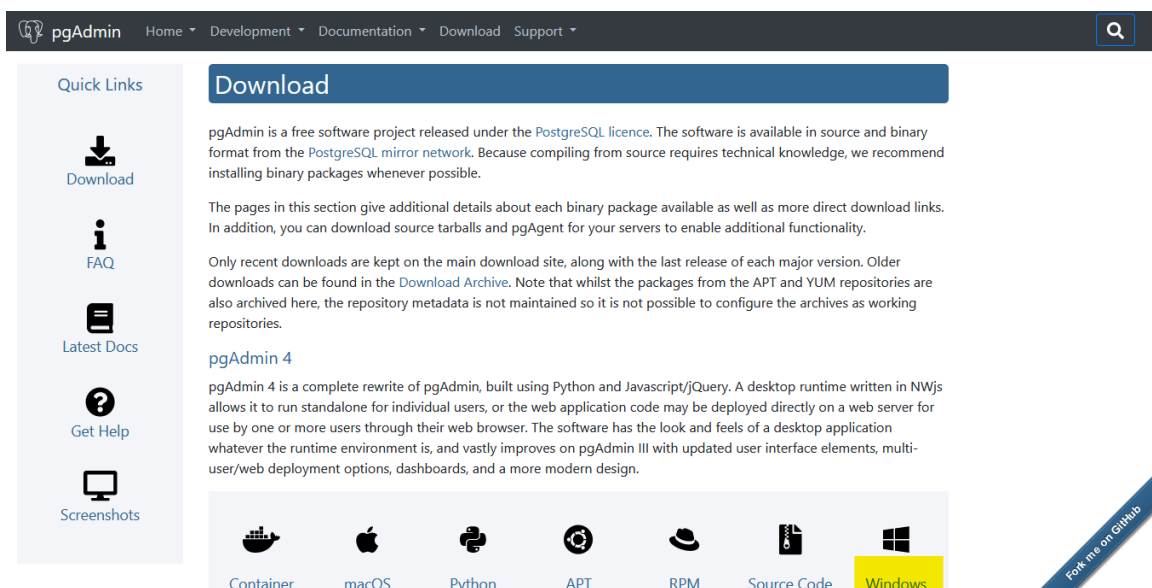
Step 2: Install PostgreSQL

1. Find the downloaded installer file (e.g., `postgresql-<version>-windows-x64.exe`) and double-click to run the installer.
2. The installer will guide you through the installation process. Follow the on-screen instructions.
3. During the installation, you will be asked to set a password for the PostgreSQL superuser (postgres). **Remember this password, as it will be needed later.**

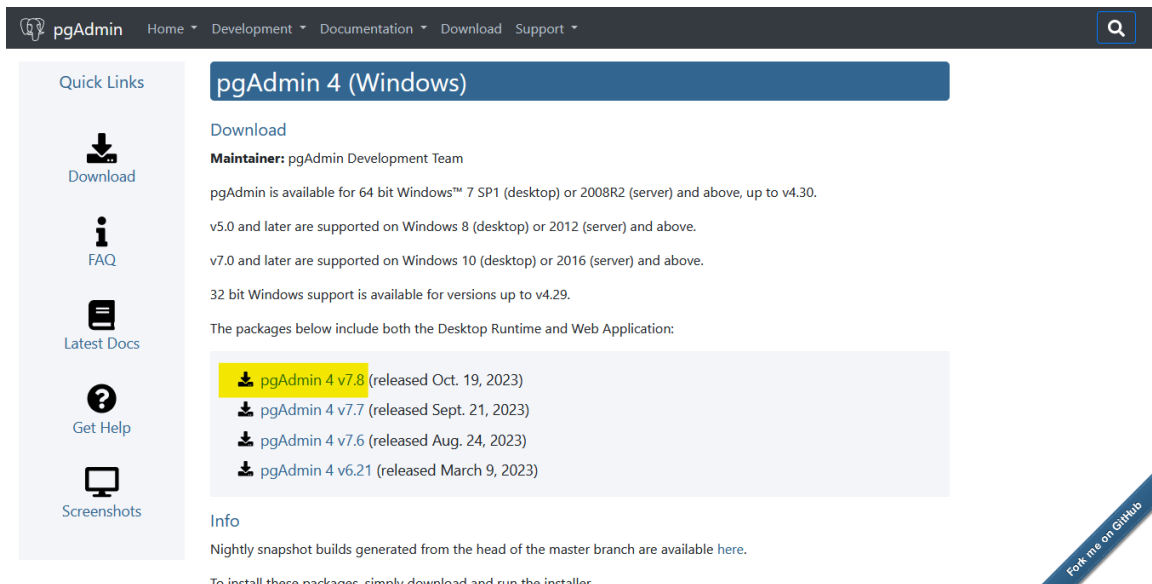


Step 3: Download PGAdmin

1. Navigate to the official PGAdmin download page: [PGAdmin Downloads](#)



2. Choose the version compatible with your system (usually the latest stable release).



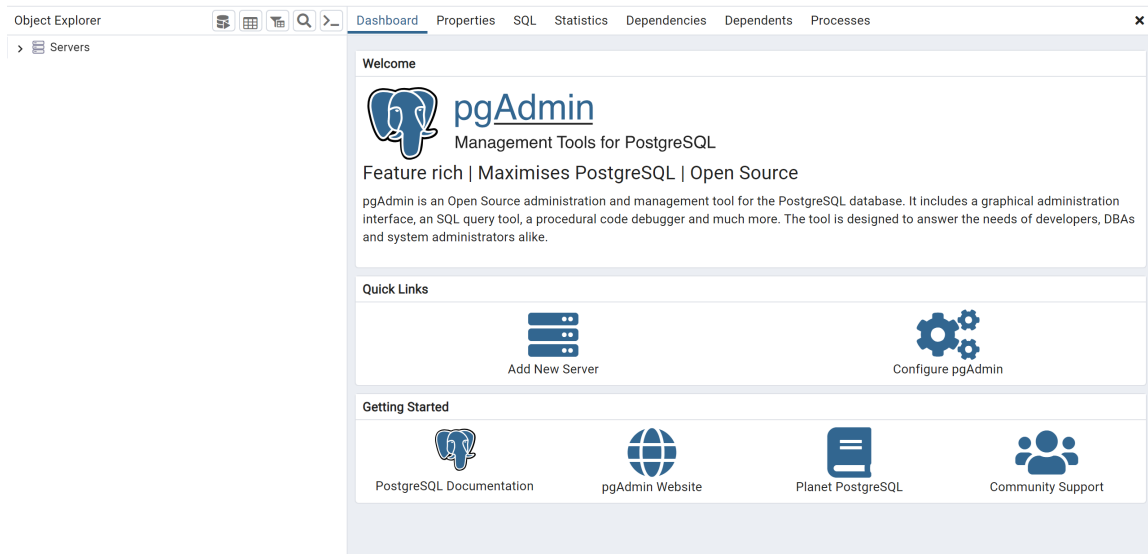
3. Click on the “Download” button to begin the download.

Step 4: Install PGAdmin

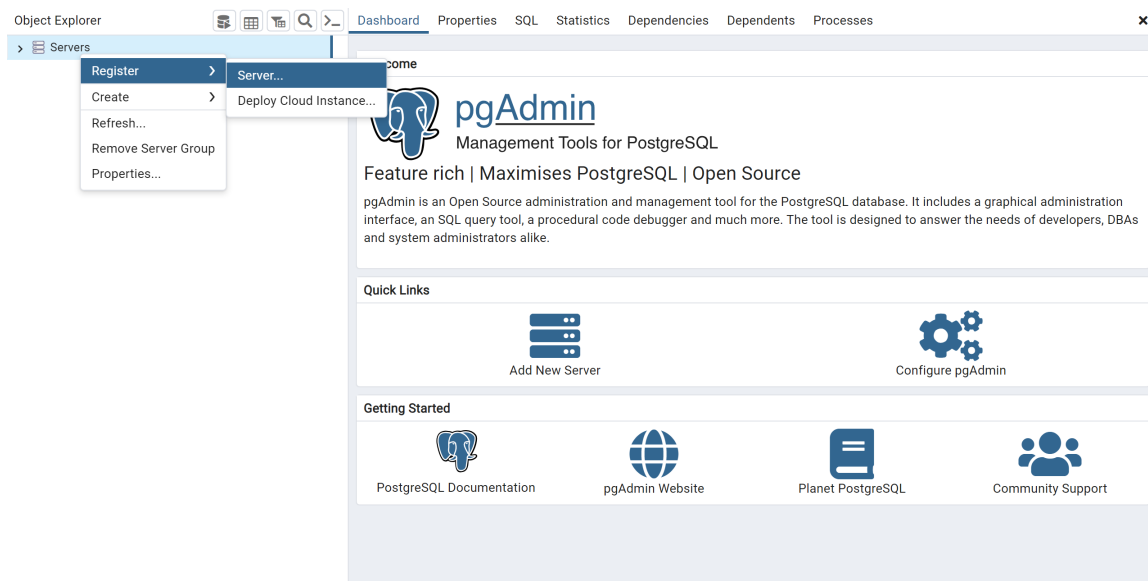
1. Find the downloaded PGAdmin installer file (e.g., `pgadmin4-<version>-x64.exe`) and double-click to run the installer.
2. Follow the on-screen instructions to install PGAdmin. The default settings are recommended unless you have specific preferences.

Step 5: Configure PostgreSQL Server Connection in PGAdmin

1. Launch PGAdmin.
2. In the PGAdmin main window, click on “Add New Server” or navigate to `File -> Add Server`.



Or if you do not get **add new server** option then you can click on
Servers -> Register -> Server



3. In the “General” tab:

- Enter a name for the server in the “Name” field.
- Switch to the “Connection” tab.

Register - Server

General | Connection | Parameters | SSH Tunnel | Advanced

Name !

Server group

Background

Foreground

Connect now? ☒


Comments

! 'Name' cannot be empty. X

4. In the “Connection” tab:

Register - Server

General Connection Parameters SSH Tunnel Advanced

Host name/address 

Port 5432

Maintenance database postgres

Username postgres



Kerberos authentication? ☐



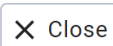
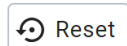

Password

Save password? ☐

Role

Service

 Either Host name or Service must be specified. 

- Host: localhost
- Port: 5432 (default PostgreSQL port)
- Maintenance Database: postgres
- Username: postgres (the default superuser)
- Password: Enter the password set during PostgreSQL installation.

5. Click “Save” to save the server configuration.

Step 6: Connect to PostgreSQL Server

1. In PGAdmin, your server should now be listed on the left-hand side.
2. Double-click on the server to connect.
3. Enter the password when prompted.



Congratulations! You have successfully installed and configured PGAdmin with PostgreSQL on your Windows system.

Additional Resources

- [PostgreSQL Documentation](#)
- [PGAdmin Documentation](#)

For any issues or further assistance, refer to the official documentation or community forums.