

Local installation

Linux is the recommended operating system for database applications. It is possible to run a Linux OS in a virtual machine, if you use Windows or Mac, or use a Postgres container. To keep things simple, install Postgres on your system directly. VMs and container are useful in a real-world project or productive environment.

Linux

Install the available PostgreSQL and PostGIS version from the sources. On Ubuntu/Debian based systems you can do that in one command

```
sudo apt install postgresql postgresql-client postgis
```

Windows

Luckily, on Windows there is a enterprise-edition installer that can be used to install Postgres. Installing from source directly is more complicated and in case the installer does not work, it's recommended to run a Linux virtual machine. Download the installer bundle from <https://www.postgresql.org/download/>. Use a version `>= 10 && < 13`. Download the EDB installer, which also already includes PgAdmin4. Run the installer.

- be sure to select the **StackBuilder** option during installation.
- After the PostgreSQL installation, the installer will start the **StackBuilder**. Open the option **spatial extensions** and select **PostGIS**. Install that as well.

Mac

Follow the instructions for Windows, but download the correct bundle.