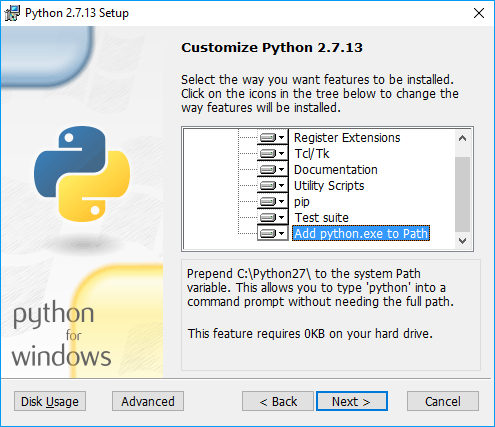
**pgAdmin4 Web Installation Procedure**

**Windows Server 2016:**

* I recommend installing a text editor other than notepad prior to following this guide. You will also need a program that can decompress tar.gz files. I recommend 7-zip.

Part 1 – Software Installation:

* Download Apache 2.4.25 x86 built with VC9 from (<http://www.apachehaus.com/cgi-bin/download.plx>). You must use the x86 VC9 version for compatibility with mod\_wsgi and Python 2.7.
* Download the windows binary of mod\_wsgi 4.4.12 from (<https://github.com/GrahamDumpleton/mod_wsgi/releases/tag/4.4.12>)
* Download Python 2.7.13 from (<https://www.python.org/downloads/>). Ensure that you download the x86 version.
* Download the MSVC++ compiler for Python here (https://www.microsoft.com/en-us/download/confirmation.aspx?id=44266)
* Run python-2.7.13.msi. On the “Customize Python 2.7.13” screen, find the “Add python.exe to Path” item (it should be the last one). Click it, and select “Will be installed on local hard drive”. Make sure your install options match the following screenshot before continuing:  
    
  Follow the remainder of the onscreen prompts.
* Run VCForPython27.msi and follow the onscreen prompts
* Extract the contents of httpd-2.4.25-x64-r1.zip to a temporary folder. Copy the Apache24 folder it contains to the root of the C:\ drive
* At this point, the root of the C:\ drive should contain folders called Apache24 and python27

Part 2 – Configuring pgAdmin4

* Open a command prompt a navigate to C:\
* Run “pip install virtualenvwrapper”. Note – if this command results in an error, try running “pip install pbr” and “pip install six” first. (This workaround was required on Azure, but not AWS).
* Run “virtualenv pgAdmin4”
* Navigate to C:\pgAdmin4\Scripts in the command prompt
* Run “activate”
* Next, we will install the pgAdmin4 Python Wheel. Various versions can be found here (<https://www.pgadmin.org/download/pgadmin-4-python-wheel/)>. This guide uses v1.5, and will provide the direct URL for this version in the next command.
* Run “pip install <https://ftp.postgresql.org/pub/pgadmin/pgadmin4/v1.5/pip/pgadmin4-1.5-py2.py3-none-any.whl>”
* Navigate to C:\pgAdmin4\Lib\site-packages\pgadmin4
* Make a copy of config.py and rename it config\_local.py
* Open config\_local.py in a text editor
* Find the block

|  |
| --- |
| if IS\_WIN:  # Use the short path on windows  DATA\_DIR = os.path.realpath(  os.path.join(fs\_short\_path(env('APPDATA')), u"pgAdmin")  )  else:  DATA\_DIR = os.path.realpath(os.path.expanduser(u'~/.pgadmin/')) |

* Delete this block, and in its place enter the line “DATA\_DIR = 'C:\pgAdmin4\storage'” Close and save the file.
* Run “python setup.py” in the command prompt
* Enter an email address and password when prompted. This will create the initial administrator account.
* In the C:\pgAdmin4\Lib\site-packages\pgadmin4 folder, open pgAdmin4.wsgi in a text editor
* Under import sys, add the lines “activate\_this = 'C:/pgAdmin4/Scripts /activate\_this.py'” and “execfile(activate\_this, dict(\_\_file\_\_=activate\_this))”
* Save and close pgAdmin4.wsgi

Part 3 – Running pgAdmin4 via Apache and mod\_wsgi

* Extract the mod\_wsgi-windows-4.4.12.tar.gz file, and navigate to mod\_wsgi-windows-4.4.12.tar\mod\_wsgi-windows-4.4.12\Apache24-win32-VC9\modules
* Rename mod\_wsgi-py27-VC9.so to mod\_wsgi.so and copy it to C:\Apache24\modules
* Navigate to C:\Apache24\conf and open httpd.conf in a text editor
* There should be a section with many LoadModule statements. At the end of these, add the line “LoadModule wsgi\_module modules/mod\_wsgi.so”
* Find the line “DocumentRoot "${SRVROOT}/htdocs"” and replace it with “DocumentRoot "C:\pgAdmin4\Lib\site-packages\pgadmin4"”
* Then, delete the entire block immediately below, starting with “<Directory "${SRVROOT}/htdocs”>” and ending with “</Directory>”
* Then, below the DocumentRoot line, paste the following block:

|  |
| --- |
| <VirtualHost \*>  ServerName pgadmin.example.com  WSGIScriptAlias / "C:\pgAdmin4\Lib\site-packages\pgadmin4\pgAdmin4.wsgi"  <Directory "C:\pgAdmin4\Lib\site-packages\pgadmin4">  Require all granted  </Directory>  </VirtualHost> |

* Save and close httpd.conf
* Open a command prompt, and navigate to C:\apache24\bin
* Run “httpd”
* Open a web browser, and navigate to <http://127.0.0.1>
* pgAdmin should load

Part 4 – Additional Apache Configuration and Notes

* Close the web browser, and press control-c in the command prompt to close apache
* Run “httpd -k install”
* Run “httpd -k start”
* Now Apache is running as an autostart service in windows
* Open the start menu, and select Window Administrative Tools -> Windows Firewall with Advanced Security.
* Click inbound rules, then new rule
* Select port, click next
* Enter 80 in specific local ports, click next, leaving TCP selected
* Click next until you reach enter name, and enter apache, then click finish

**Ubuntu Server 16.04:**

Part 1 – Software Installation:

* Run “sudo apt install apache2 python-pip virtualenvwrapper libapache2-mod-wsgi build-essential” to install Apache web server, Python, pip and mod\_wsgi
* Run “wget <http://oscg-downloads.s3.amazonaws.com/packages/postgresql-9.6.3-1-x64-bigsql.deb>” to download the BigSQL Postgres installer
* Run “sudo dpkg -i postgresql-9.6.3-1-x64-bigsql.deb”, then “sudo apt install -f” to install PostgreSQL
* Run “sudo /opt/postgresql/pgc init pg96” to initialize PostgreSQL. Follow the on screen prompts to create the postgres user account
* Run “sudo service postgresql96 start” to start the Postgres server

Part 2 – Configuring pgAdmin4

* Navigate to /var
* Run “sudo mkdir pgadmin4”
* Run “sudo chown <uname>:<uname> pgadmin4”, where <uname> is the name of the current user
* Navigate to /opt
* Run “sudo mkdir pgadmin4”, then “sudo chown <uname>:<uname> ./pgadmin4”, where <uname> is the name of the current user
* Run “virtualenv pgAdmin4”
* Navigate to /opt/pgadmin4/bin
* Run “source ./activate”
* Next, we will install the pgAdmin4 Python Wheel. Various versions can be found here (<https://www.pgadmin.org/download/pgadmin-4-python-wheel/)>. This guide uses v1.5, and will provide the direct URL for this version in the next command.
* Run “pip install <https://ftp.postgresql.org/pub/pgadmin/pgadmin4/v1.5/pip/pgadmin4-1.5-py2.py3-none-any.whl>”
* Navigate to /opt/pgadmin4/lib/python2.7/site-packages/pgadmin4
* Make a copy of config.py and rename it config\_local.py
* Open config\_local.py in a text editor
* Find the block

|  |
| --- |
| if IS\_WIN:  # Use the short path on windows  DATA\_DIR = os.path.realpath(  os.path.join(fs\_short\_path(env('APPDATA')), u"pgAdmin")  )  else:  DATA\_DIR = os.path.realpath(os.path.expanduser(u'~/.pgadmin/')) |

* Delete this block, and in its place enter the line “DATA\_DIR = '/var/pgadmin4'” Close and save the file.
* Run “python setup.py” in the command prompt
* Enter an email address and password when prompted. This will create the initial administrator account.
* Open pgAdmin4.wsgi in a text editor
* Under import sys, add the lines “activate\_this = ’/opt/pgadmin4/bin/activate\_this.py'” and “execfile(activate\_this, dict(\_\_file\_\_=activate\_this))”
* Save and close pgAdmin4.wsgi
* Return to /var and run “sudo chown -R www-data:www-data pgadmin4”

Part 3 – Running pgAdmin4 via Apache and mod\_wsgi

* Navigate to /var/www
* Run “sudo ln -s /opt/pgadmin4/lib/python2.7/site-packages/pgadmin4 pgadmin4”
* Navigate to /etc/apache2/sites-available
* Create a text file called pgadmin4.conf, and open it
* Paste the following into the file

|  |
| --- |
| <VirtualHost \*>  ServerName pgadmin.local  WSGIDaemonProcess pgadmin processes=1 threads=25  WSGIScriptAlias / /var/www/pgadmin4/pgAdmin4.wsgi  <Directory /var/www/pgadmin4>  WSGIProcessGroup pgadmin  WSGIApplicationGroup %{GLOBAL}  Require all granted  </Directory>  </VirtualHost> |

* Save and close pgadmin4.conf
* Run “sudo a2dissite 000-default.conf”
* Run “sudo a2ensite pgadmin4.conf”
* Run sudo service apache2 restart
* Open a web browser and navigate to your server’s IP or URL. pgAdmin should load.